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FIGURE 4522

GGCACGAGGCGGCCTCCCTGCCCTTACGGCCCGCCTGCCTCCCTGCCCAAGTCCTGAGCCACCATGCTGACCC
CGATGGTGGCCGGGGGGGTGGTGTTCCTCGACTCTTCCTCCTCTCCAAGAACACGCTCCAGCGGCTGCCCCAGC
TACGCTGGGAGGAGGCCGACGCAGTCATTGTCTCAGCCAGGCTGGTGTCTCTGTCCAGGCCATCATGGCCTCCA
CTGCCGGCTACATCGTCTCCACCTCCTGCAAGCACATCATTGATGACCAACACTGGCTGTCTCTGCCTACACGC
AATTTGCTGTGCCCTACTTCATCTACGACATCTACGCCATGTTCTCTGTCACTGGCACAAGCACCAGGTCAAAG
GGCATGGAGGGGACGACGGAGCGGCCAGAGCCCCGGGCAGCACGTGGGCCATAGCGCGTGGCTACCTGCACAAGG
AGTTCCTCATGGTGTCTCCACCATGCCGCCATGGTGTCTGGTGTGCTTCCCACTCTCAGTGGTGTGGCGACAGGGTA
AGGGAGACTTCTTTCTGGGTTGCATGTTGATGGCAGAGGTGAGCACGCCCTTCGTCTGCCCTGGCAAGATCCTCA
TCCAGTACAAGCAGCAGCACACACTGCTGCACAAGGTGAACGGGGCCCTGATGCTGCTCAGCTTCCTCTGCTGCC
GGGTGCTGCTCTTTCCCTACCTGTACTGGGCCTACGGGCGCCATGCCGGCCTGCCCCCTGCTGGCCGTGCCCTGG
CCATCCCTGCCACGTC AACCTGGGCGCTGCGCTGCTCCTGGCCCCCTCAGCTCTACTGGTTCCTTCCTCATCTGCC
GTGGGGCCTGCCGCCCTCTTCTGGCCCCGCTCCCGGCCGCCCGGCCCTGCCAGGCCCAGGACTGAGGCCGGGGGC
CGGGACCTCCCTCCCTCCCCACCCCCACCCCCGTTGGAGACAGGGCTCTGGGGCTGATGGCTGGGGTTGGGAGCCAG
GGTCTCTTGCCCGGACAACCCAGGACTGACGATGACCCCGAAAGGGAAGAGGCCCCATCTCTCGGGGACTGAG
GGGGTGGAGAGAGGGGACCTCTTCCCCCTACTCTGCCCCCTTCTGACACCCCTTGCGCTGGAGGAGGGGAGGGG
GCACCGCCTCCCACCCACTGAGGGCAGGAGGGCTTGTGGGGAGGGACACCAACAGGGTTTCAAGGGGACCAGGAG
TCAGAATGTGGGGAGACGCCTCTGCCAAGGCCATCCCAGCCCCCTATGCTGCCATCCCCCAGGGCTCCCCATCACC
CGAGAGGAGAGGACGCCCCAACTAACCCCCGCTGGCCCTCGGGCCTCCCGAGTGGCCGGCTGCAACCACGGCTCC
TCTCCAGGGTAGGCCAGCTTGAGGAATCTTATTTATTTATTTATTTATTTACCCAAATTTGAACTAGTCTGTTGGGTT
GGGGGAAGGAGGTGGCTGCTACCCCCAAGCCTTCCAGTGCTGACAACCCCGGGGGCAGGCGAGGGCGCCCAGTC
CCTCACCATCGGCTGCACATCGCGCCCTCGGGCCCTGCCATGTCCCTGGTGTCTACTGACCTCTCAAGGCTTCCTC
CAATCTGGGGTCTGGGGGACCTGGGAGGTGCTTTACAGACCGCTAATAAAAGACGATCTGCGTGAACGCCAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 4523

MASTAGYIVSTSCCKHIIDDQHWLSSAYTQFAVPYFIYDIYAMFLCHWHKHQVKGHGGDDGAARAPGSTWAIARGY
LHKEFLMVLHHAAMVLVCFPLSVVWRQGKGDFFLGCMLEAEVSTPFVCLGKILIQYKQQHTLLHKVNGALMLLSF
LCCRVLLFPYLYWAYGRHAGLPLLAIVPLAIPAHVNLGAALLAPQLYWFFLICRGACRLFWRPSRPPACQAQD

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FIGURE 4524

CGTTGGCCCTTGGCCGCGGACCGCGTGGGCCGAGAACTTTGCCAGACGAGACTTGTTTTCTCTGGGCAGTTGGAG
GGTCTCGCGGCTCCTACCCTTTTTTGGAACGGATCATTTTAAAAGTTCTCGTTAGAAACCAATTCGGCGCCGGCA
CCCTTTGGGTGAAACCTAATCAGCCCGCGACGCTGCCTTTCTCACTGGTCACGGGCAACAGCTAGGCTGCTGTTA
TTTCGCAAGGCAGAAAGAGAAAAGGCATCCTCGCGAGCAGATCAGGAACCTCGGGGATAAATCCTTTTGTGGCTTC
AAGTGTCTAAGTACATTAGAGTCAGGAACGGCGCTTTCCAGCGTCCGCCATTTTTGTGGCGTCACCGCGTCGCTG
CTACGGCTTGGGGTAGCGGGAGGGCAGACTCTGGGCGCCACTCCCGGGCCGGTCATGAACGGGCGGCGGACGGC
GAAGTGGACTACAAAAAAAAATACCGGAATCTGAAGCGGAAGCTCAAGTTCCTCATCTACGAGCACGAGTGCTTC
CAGGAGGAGCTGAGGAAAGCGCAAAGGAAATTACTGAAGGTGTCCCGGGACAAGAGTTTCCTCCTAGACCGACTT
CTGCAGTACGAGAACGTGGATGAAGACTCTTCGGACTCAGATGCCACTGCATCATCAGATAACAGCGAGACGGAG
GGGACACCCAAGTTGTCTGACACACCGGCCCTAAGAGGGTTTTCCCTTCAGGCCTCCGGGGTCCCCTCCCCATA
CCTGAGCTCGCTGGCCTCCTCCCGCTACCCCCCATTCCTTCTGACTACCTGGCCCTGCAGCTGCCCGAGCCAG
TCCCCTGAGGCCCAAGCGGGAGAAACGGCCCCGCCTGCCCGGAAACTCAAGATGGCGGTGGGACCCCCCGACTG
CCCTGTGGGAGGGCCGCTGACCTTCCCTGGCCGGGGTTCTGGGGCTGGGGTCTGGGACAACCCTGACCCCCCTCCC
ACCCCTAAGATGCCCCCCCCACGATCCTGAGCACGGTCCCTCGGCAGATGTTTCAGCGATGCAGGTAGCGGGGA
CGATGCCTTGGATGGAGACGATGACCTGGTGATCGACATCCC

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FIGURE 4525

MRNLGDKSFCGFKCLSTLES GTALSSVRHFCGVTASLLRLGVAGGQTLGATPGPVMNGPADGEVDYKKKYRNLKR
KLKFLIYEHECFQEELRKAQRKLLKVS RDKSFLLDRLLOQYENVDE DSSDSDATASSDNSETEGTPKLS DTPAPKR

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FIGURE 4526

CCGAGGTTCCCTCATCTGCTCGCGAGGATGCCTTTTCTCTTCTGCCTTGCGAAATAACAGCAGCCTAGCTGTTGCC
CGTGACCAGTGAGAAAGGCAGCGTCGCGGGCTGATTAGGTTTACCCAAAGGGTGCCGGCGCCGAATTGGTTTCT
AACGAGAAGCTTTTAAATGATCCGTTCCAAAAAGGGTAGGAGCCGCGAGACCCTCCAAGTCCCGAGAGAAAACA
AGTCTCGTCTGGCAAAGTTCTCGGCCACGCGGTCCGCGGCCAAGGGCCAACGGTCCCTCGCCCCACGTTGCCGC
AGCACTGCGCGTGCGCGAGCCGCTGTCAAACGCGCTGACGGAGGCCGAGAAGAAAAAAGGCGGGAGCCGTCAT
CCCGGGTTGAGCAAAATGGCGCGGAGAGGAGATGCAGGAGTTACCCGTAGCTTCTTCCGAGGCCGCCCGGAC
CTCAGCACGCTTACGCATTCCATCGTGCGGCGGAGGTACTTAGCTCACTCGGGCCGAGCCACCTGGAGCCCGAG
GAGAAGCAGGCACTGAAGCGGCTGGTGGAGGAGGAGCTGCTGAAGATGCAGGTGGATGAAGCCGCTTCCAGGGAA
GACAACTGGACCTTACCAAGAAGGGCAAGAGGCCTCCACCCCTTGTAGCGACCCGGAGAGAAAAAGGTTCCGC
TTCAATTCAGAGTCGGAGTCCGGCTCTGAAGCCTCCAGCCCAGACTACTTTGGACCCCCAGCAAAGAATGGGGTG
GCAGCAGAAGTCAGCCCAGCCAAAGAGGAGAAATCCAAGGCGAGCCTCAAAGGCAGTTGAGGAGAGCAGTGATGAG
GAACGGCAGAGGGACCTGCCCCACAGAGGGGAGAGGAGAGCAGTGAGGAGGAGGAAAAGGGGTACAAGGGGAAG
ACTAGGAAGAAACCTGTGGTAAAGAAGCAGGCACCAGGCAAGGCCTCAGTCAGTAGGAAGCAGGCCAGGGAAGAA
AGTGAGGAGAGCGAGGCAGAACCCGTTAGAGGACAGCAAAGAAGGTGGAGGGAAATAAAGGAAGTAAAAGCCTG
AAGGAAAGTGAACAGGAGAGTGAAGAGGAGATCCTAGCCCAGAAGAAAGAGCAGAGAGAGGAGGAAAGTGGAGGAG
GAAGAGAAAGAAGAGGATGAGGAAAAGGGGGATTGGAAACCCAGAACCAGGAGCAATGGCCGGAGAAAGTCAGCT
AGGGAGGAGAGGAGCTGTAAGCAGAAAAGCCAGGCAAAGAGGCTCTTGGGAGACTCAGACAGCGAGGAAGAGCAG
AAAGAGGCAGCCAGCAGTGAGGATGACAGTGGGAGAGATAGAGAACCCCAAGTCAGAGGAAGAGTGAGGACAGG
ACCCAGCTTAAGGGTGGGAAGAGGTTGAGTGGAAGCAGCGAGGACGAGGAAGACAGTGGGAAGGGGGAACCCACA
GCTAAAGGCTCTAGAAAGATGGCCAGACTGGGCAGCACCAAGTGGTGAGGAAAGTGACTTGGAGAGGGAGGTAAGT
GACAGCGAGGCAGGGGGAGGCCCCAGGGGGAGAGGAAGAACCGCTCTTCCAAGAAGAGCTCCAGGAAAGGCAGG
ACACGAAGCTCCTCTTCTCTCAGATGGAAGTCCAGAGGCCAAAGGAGGGAAGGCTGGCTCAGGTCGCCGTGGA
GAGGACCACCCGGCTGTGATGAGGCTGAAGCGCTACATTCGGGCCTGTGGTGCCCATCGAACTACAAGAAGCTG
TTGGGCTCCTGTTGCTCACACAAGGAGCGCCTGAGTATCCTCCGGGCAGAACTGGAAGCGCTAGGCATGAAGGGT
ACCCCTTCCCTAGGGAAGTGTCGGGCCCTGAAGGAGCAGAGGGAGGAGGCAGCTGAGGTGGCCTCCTTGATGTT
GCGAACATCATCAGTGGCTCGGGCCGGCCACGCAGACGTACAGCCTGGAACCCCTTTAGGAGAAGCAGCACCCCCA
GGGAGCTGTACCGACGACCCCTGGACTCAGATGAAGAGCGGCCCCGTCCCGCACCCCCAGACTGGTCACATATG
CGTGGCATCATCAGCAGTGATGGCGAGAGTAACTGAGCTCTGCCACCCCAAGGAGGGACCCCTTGATACATGTACA
AAGCATACATAGCACCCCTTGCCCTGTGTCTGTGGAACAGAAGCAGCTTCCTTCAGAGAAGACTGCAGCTCCCAA
GGACACAAGCTGTTGGGATGCTACTTCTCAGCTTCACGCTGTCCCTTTAAGGTGTTTATTTTTTAAGACTCAATA
AAGGAGTGTTTTTAATCACCTC

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FIGURE 4527

AGCAGGGTCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGCGCAGTTATAGCTCACTGCAGCCTTGAACCTCCTGG
GCTCAAGTGATCCTTCCACCTCAGCCTCCCTAGTAGCTGGGACCACAGGTGGTGACTTCCAAGAGTGACTCCGTC
GGAGGAAAATGACTCCCCAGTCGCTGCTGCAGACGACACTGTTCTCTGCTGAGTCTGCTCTTCTGGTCCAAGGTG
CCCACGGCAGGGGCCACAGGGAAGACTTTCGCTTCTGCAGCCAGCGGAACCAGACACACAGGAGCAGCCTCCACT
ACAAACCCACACCAGACCTGCGCATCTCCATCGAGAACTCCGAAGAGGCCCTCACAGTCCATGCCCCTTTCCCTG
CAGCCCACCTGCTTCCCGATCCTTCCCTGACCCCAGGGGCTCTACCACTTCTGCCTCTACTGGAACCGACATG
CTGGGAGATTACATCTTCTCTATGGCAAGCGTGACTTCTTGCTGAGTGACAAAGCCTCTAGCCTCCTCTGCTTCC
AGCACCAGGAGGAGAGCCTGGCTCAGGGCCCCCGCTGTTAGCCACTTCTGTACCTCCTGGTGGAGCCCTCAGA
ACATCAGCCTGCCCAGTGCCGCCAGCTTACCTTCTCCTTCCACAGTCCCTCCCCACACGGCCGCTCACAATGCCT
CGGTGGACATGTGCGAGCTCAAAAGGGACCTCCAGCTGCTCAGCCAGTTCTGAAGCATCCCCAGAAGGCCCTCAA
GGAGGCCCTCGGCTGCCCCGCCAGCCAGCAGTTGCAGAGCCTGGAGTCGAAACTGACCTCTGTGAGATTATG
GGGACATGGTGTCTTTCGAGGAGGACCGGATCAACGCCACGGTGTGGAAGCTCCAGCCCACAGCCGGCCTCCAGG
ACCTGCACATCCACTCCCCGGCAGGAGGAGGAGCAGAGCGAGATCATGGAGTACTCGGTGCTGCTGCCTCGAACAC
TCTTCCAGAGGACGAAAGGCCGAGCGGGGAGGCTGAGAAGAGACTCCTCCTGGTGGACTTCAGCAGCCAAGCCC
TGTTCCAGGACAAGAATTCCAGCCAAGTCTGGGTGAGAAGGTCTTGGGGATTGTGGTACAGAACACCAAAGTAG
CCAACCTCACGGAGCCCCGTGGTGCTCACTTTCAGCACCAGCTACAGCCGAAGAATGTGACTCTGCAATGTGTGT
TCTGGGTTGAAGACCCCCACATGTGACAGCCCGGGCATTGGAGCAGTGTGGGTGTGAGACCGTCAGGAGAGAAA
CCCAAACATCCTGCTTCTGCAACCACTTGACCTACTTTGCAGTGTGTGATGGTCTCCTCGGTGGAGGTGGACGCCG
TGCACAAGCACTACCTGAGCCTCCTCTCCTACGTGGGCTGTGTCTCTGCTCCTGCCCCTGGCCTGCCTTGTACCATTG
CCGCTACCTCTGCTCCAGGGTGCCCCTGCCGTGCAGGAGGAAACCTCGGGACTACACCATCAAGGTGCACATGA
ACCTGCTGCTGGCCGTCTTCTGCTGGACACGAGCTTCTGCTCAGCGAGCCGGTGGCCCTGACAGGCTCTGAGG
CTGGCTGCCGAGCCAGTGCCATCTTCTGCACTTCTCCCTGCTCACCTGCCTTTCTGGATGGGCTCGAGGGGT
ACAACCTCTACCGACTCGTGGTGGAGGTCTTTGGCACCTATGTCCCTGGCTACCTACTCAAGCTGAGCGCCATGG
GCTGGGGCTTCCCCATCTTTCTGGTGACGCTGGTGGCCCTGGTGGATGTGGACAACTATGGCCCCATCATCTTGG
CTGTGCATAGGACTCCAGAGGGCGTCATCTACCCTTCCATGTGCTGGATCCGGGACTCCCTGGTCACTACATCA
CCAACCTGGGCCTCTTACGCTGGTGTCTTCTGTTCAACATGGCCATGCTAGCCACCATGGTGGTGCAGATCCTGC
GGCTGCGCCCCCACACCCAAAAGTGGTCACATGTGTGACACTGCTGGGCCTCAGCCTGGTCCCTTGGCCTGCCCT
GGGCCTTGATCTTCTTCTCCTTTGCTTCTGGCACCTTCCAGCTTGTCTCTCTACCTTTTCAGCATCATCACCT
CCTTCCAAGGCTTCTCATCTTCTATCTGGTACTGGTCCATGCGGCTGCAGGCCCGGGGTGGCCCCCTCCCCCTGA
AGAGCAACTCAGACAGCGCCAGGCTCCCCATCAGCTCGGGCAGCACCTCGTCCAGCCGCATCTAGGCCTCCAGCC
CACCTGCCCATGTGATGAAGCAGAGATTTCGGCCTCGTCGCACACTGCCTGTGGCCCCCGAGCCCCGGCCAGCCCC
AGGCCAGTCAGCCGCAGACTTTGGAAAGCCCCAACGACCATGGAGAGATGGGCCGTTGCCATGGTGGACGACTCC
CGGGCTGGGCTTTTGAATTGGCCTTGGGGACTACTCGGCTCTCACTCAGCTCCCACGGGACTCAGAAGTGCGCCG
CCATGCTGCCTAGGGTACTGTCCCCACATCTGTCCCAACCCAGCTGGAGGCCTGGTCTCTCCTTACAACCCCTGG
GCCCAGCCCTCATTGCTGGGGGCCAGGCCCTTGGATCTTGAGGGTCTGGCACATCCTTAATCCTGTGCCCTGCCT
GGGACAGAAATGTGGCTCCAGTTGCTCTGTCTCTCGTGGTACCCTGAGGGCACTCTGCATCCTCTGTCAATTTA
ACCTCAGGTGGCACCCAGGGCGAATGGGGCCAGGGCAGACCTTCAGGGCCAGAGCCCTGGCGGAGGAGAGGCC
TTTGCCAGGAGCACAGCAGCAGCTCGCCTACCTCTGAGCCC

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FIGURE 4528

AGGGCTTCCTGAAGAAATGAGAAGGACAATGCCCTGCTGTCTGCCATCGAAGAGTCCCGGAAGAGGACCTTCGGCA
TGGCTGAGGAGTACCATCGGGAGTCAATGTTGGTTGAGTGGGAGCAAGTGAAACAGCGAATTCTGCACACACTGC
TGGCATCAGGAGAAGACGCCCTTGACTTTACTCAAGAAAGCGAGCCAAGCTACATCAGTGATGTGGGACCCCTG
GTCGAAGCTCTCTGGATAACATCGAGATGGCCTATGCGCGGCAAATTTATATCTATAATGAGAAAATTGTAAATG
GACACCTGCAGCCTAACCTGGTGGACCTTTGTGCTTCCGTGCGAGAGCTCGATGATAAGAGCATTTCGACATGT
GGACCATGGTAAAACAAATGACAGACGTGTTGTTGACACCGGCAACGGATGCCCTGAAGAACCGCAGCAGCGTGG
AAGTGCGCATGGAGTTTGTGTCAGGCAGGCCCTTGGCGTACCTTGAGCAGAGTTATAAGAATTACACCCTTGTGACTG
TCTTTGGAAAATTTGCATCAGGCCCAGCTGGGCGGGGTGCCTGGGACTTACCAATTGGTTTGAAGTTTCCTGAACA
TTAAACTGCCAGCTCCCTTGCCCTGGACTACAGGATGGAGAGGTGGAAGGCCATCCTGTGTGGGCGCTAATTTACT
ACTGCATGCGCTGTGGAGACCTGCTTGCCGCTTCACAGGTAGTTAATCGAGCCCAGCACCAGCTGGGAGAGTTTA
AAACCTGGTTCCAGGAGTACATGAACAGCAAGGACAGAAGATTGTCCCCAGCTACGGAAAACAAGCTCCGGCTGC
ATTACCGTAGGGCCCTCAGGAACAATACAGATCCCTACAAGCGGGCCGTGTACTGTATCATTGGCAGATGTGACG
TCACCGACAACCAGAGTGAAAGTGGCGGACAAAAGTGGAGTTACCTGTGGCTGAAGTTGAACCAAGTGTGTTTTG
ACGACGATGGCACCAGCTCCCCACAAGACAGGCTCACTCTCTCACAGTTCCAGAAGCAGTTGTTGGAAGACTATG
GCGAGTCCCACTTTACGGTGAACCAGCAACCCTTCCTCTACTTCCAAGTCCTGTTTCTGACAGCGCAGTTTGAAG
CAGCAGTTGCCTTTCTTTTCCGCATGGAGCGGCTGCGCTGCCATGCTGTCCATGTAGCACTGGTGTGTTTGAGC
TGAAGCTGCTTTTAAAGTCCTCTGGACAGAGTGCTCAGCTCCTCAGCCACGAGCCTGGTGACCCTCCTTGCTTGC
GGCGGCTGAACTTCGTGCGGCTCCTCATGCTGTACACCCGGAAGTTTGAGTCCACGGACCCAAGGGAGGCCCTCC
AGTACTTCTATTTCTCAGGGATGAGAAAGATAGTCAAGGAGAAAACATGTTTCTGCGCTGTGTGAGTGAGCTTG
TGATTGAAAGCCGAGAGTTCGATATGATTCTTGGGAAACTAGAGAATGACGGAAGTAGAAAGCCTGGAGTCATAG
ATAAGTTTACTAGTGACACAAAGCCTATTATCAACAAAGTTGCTTCTGTGGCAGAAAATAAAGGACTGTTTGAAG
AGGCAGCAAAGCTGTATGACCTTGCCAAGAATGCTGACAAGGTACTGGAGCTGATGAACAACTGCTGAGCCCTG
TCGTCCCCCAGATCAGTGCCCCGCAATCCAACAAGGAGAGGCTGAAGAACATGGCACTCTCCATTGCCGAACGGT
ATAGGGCTCAAGGAATAAGCGCAAATAAATTTGTGGACTCCACGTTCTATCTTCTTTTGGACTTGATCACCTTTT
TTGACGAGTATCATAGTGGTCATATTGATAGAGCTTTTGATATCATTGAGCGCTTGAAGCTGGTGCCCCTGAATC
AGGAAAGTGTGGAAGAGAGAGTGGCTGCCTTCAGAAAATTCAGTGATGAAATCAGGCACAACCTCTCAGAAGTGC
TTCTTGCCACCATGAACATCTTGTTACACAGTTTAAAGAGGCTCAAGGGGACAAGTCCATCCTCGTCATCCAGGC
CCCAGCGAGTCATCGAGGACCGCGACTCTCAACTCCGAAGTCAAGCCCGCACTCTGATTACCTTTGCTGGAATGA
TACCATACCGAACGTCTGGGGACACCAATGCGAGGCTGGTGCAGATGGAGGTCTCATGAATTAAGTGCCATGCT
TTGTGGGAGTCTGGGTGCGGCACACTGTGAGTACATCAGGCACATGGGCCCCTAGGCTGGGGTTTCTGGTTTTGT
TTCIGTTGTGTTTTGTTTTGGTTTTCTGTATTATGTATTTTGTCAACGCCAATAAATTTCTTTGATTTGT

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FIGURE 4529

MAEYHRESMLVEWEQVKQRILHTLLASGEDALDFTQESEPSYISDVGPPGRSSLDNIEMAYARQIYIYNEKIVN
GHLQPNLVDLCASVAELDDKSISDMWTMVKQMTDVLLTPATDALKNRSSVEVRMEFVRQALAYLEQSYKNYTLVT
VFGNLHQAQLGGVPGTYQLVRSFLNIKLPAPLPGLQDGEVEGHPVWALIYYCMRCGDLLAASQVVNRAQHQLGEF
KTWFQEYMNSKDRRLSPATENKLRLHYRRALRNNTDPYKRAVYCIIGRCDVTDNQSEVADKTEDYLWLKLNQVCF
DDDGTSPPQDRLTSLSQFQQLLEDYGESHTVNQQPFLYFQVLFLTAQFEAAVAFLEFRMERLRCHAVHVALVLFE
LKLLKSSGQSAQLLSHEPGDPPCLRRLNFBVRLMLYTRKFESTDPREALQYFYFLRDEKDSQGENMFLRCVSEL
VIESREFDMILGKLENDGSRKPGVIDKFTSDTKPIINKVASVAENKGLFEEAAKLYDLAKNADKVLELMNKLLSP
VVPQISAPQSNKERLKNMALSIAERYRAQQISANKFVDSTFYLLLDLITFFDEYHSGHIDRAFDIIERLKLVLPLN
QESVEERVAAFRNFSDEIRHNLSEVLLATMNILFTQFKRLKGTSPSSSRPQRVIEDRDSQLRSQARTLITFAGM
IPYRTSGDTNARLVQMEVLMN

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FIGURE 4530

GACGTGAACGGTCGTTGCAGAGATTGCGGGCGGCTGAGACGCCGCCTGCCTGGCACCTAGGAGCGCAGCGGAGCC
CCGACACCGCCGCCGCCGCCATGGAGTCCGAGACCGAACCCGAGCCCGTCACGCTCCTGGTGAAGAGCCCCAACC
AGCGCCACCGCGACTTGGAGCTGAGTGGCGACCGCGGCTGGAGTGTGGGCCACCTCAAGGCCCACCTGAGCCGCG
TCTACCCCGAGCGTCCGCGTCCAGAGGACCAGAGGTTAATTTATTCTGGGAAGCTGTTGTTGGATCACCAATGTC
TCAGGGACTTGCTTCCAAAGCAGGAAAAACGGCATGTTTTGCATCTGGTGTGCAATGTGAAGAGTCCTTCAAAAA
TGCCAGAAATCAACGCCAAGGTGGCTGAATCCACAGAGGAGCCTGCTGGTTCTAATCGGGGACAGTATCCTGAGG
ATTCTCAAGTGATGGTTTAAGGCAAAGGGAAGTTCTTCGGAACCTTTCTTCCCCTGGATGGGAAAACATCTCAA
GGCCTGAAGCTGCCCAGCAGGCATTCCAAGGCTGGGTCTGGTTTCTCCGGTTACACACCCCTATGGGTGGCTTC
AGCTTTCCTGGTTCCAGCAGATATATGCACGACAGTACTACATGCAATATTTAGCAGCCACTGCTGCATCAGGGG
CTTTTGTTCCACCACCAAGTGACAAGAGATACCTGTGGTCTCTGCACCTGCTCCAGCCCCCTATTACAAACAGT
TTCCAGCTGAAAACCAGCCTGCCAATCAGAAATGCTGCTCCTCAAGTGGTTGTTAATCCTGGAGCCAATCAAAATT
TGCGGATGAATGCACAAGGTGGCCCTATTGTGGAAGAAGATGATGAAATAAATCGAGATTGGTTGGATTGGACCT
ATTCAGCAGCTACATTTTCTGTTTTTCTCAGTATCCTCTACTTCTACTCCTCCCTGAGCAGATTCTCATGGTCA
TGGGGGCCACCGTTGTTATGTACCTGCATCACGTTGGGTGGTTTCCATTTAGACCAGGCGCGTTTCAGAACTTCC
CAAATGATGGTCCTCCTCCTGACGTTGTAAATCAGGACCCCAACAATAACTTACAGGAAGGCACTGATCCTGAAA
CTGAAGACCCCAACCACCTCCCTCCAGACAGGGATGTACTAGATGGCGAGCAGACCAGCCCCCTCCTTTATGAGCA
CAGCATGGCTTGTCTTCAAGACTTTCTTTGCCTCTCTTCTTCCAGAAGGCCCCCAGCCATCGCAAACTGATGGT
GTTTGTGCTGTAGCTGTTGGAGGCTTTGACAGGAATGGACTGGATCACCTGACTCCAGCTAGATTGCCTCTCCTG
GACATGGCAATGATGAGTTTTTAAAAAACAGTGTGGATGATGATATGCTTTTGTGAGCAAGCAAAAGCAGAAACG
TGAAGCCGTGATACAAATTGGTGAACAAAAAATGCCAAGGCTTCTCATGTCTTTATTCTGAAGAGCTTTAATAT
ATACTCTATGTAGTTTAATAAGCACTGTACGTAGAAGGCCTTAGGTGTTGCATGTCTATGCTTGAGGAACTTTTC
CAAATGTGTGTGTCTGCATGTGTGTTTGTACATAGAAGTCATAGATGCAGAAGTGGTTCTGCTGGTACGATTGGA
TTCCTGTTGGAATGTTTAAATTACACTAAGTGTACTACTTTATATAATCAATGAAATTGCTAGACATGTTTTAGC
AGGACTTTTCTAGGAAAGACTTATGTATAATTGCTTTTTAAATGCAGTGCTTTACTTTAACTAAGGGGAACCTT
TGCGGAGGTGAAAACCTTTGCTGGGTTTTCTGTTCAATAAAGTTTTACTATGAATGACCCTGAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 4531

MESETEPEPVTL LVKSPNQ RHRDLELSGDRGWSVGHLKAHL SRVYPERPRPEDQRLIYSGKLLLDHQCLRDLLPK
QEKRHVLHLVCNVKSPSKMPEINAKVAESTE EPAGSNRGQYPEDSSSDGLRQREVLRLNLSSPGWENISRPEAAQQ
AFQGLGPGFSGYTPYGWLQLSWFQQIYARQYYMQYLAATAASGAFVPPPSAQEIPVVSAPAPAPIHNQFPAENQP
ANQNAAPQVVVNPGANQNLRMNAQGGPIVEEDDEINRDWLDWTYSAATFSVFLSILYFYSSLSRFLMVMGATVVM
YLHHVGWFPFRPRPVQNFNDGPPPDVVNQDPNNNLQEGTDPETEDPNHLPDPRDVL DGEQTSPSFMSTAWLVFK
TFFASLLPEGPPAIAN

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FIGURE 4532

CCCGAGCGGCTGGGAGCGCACGCGAGCGGGCCGTGGCCGCGCGGGCAGCGCCCTGAGCCTGTCCCGCGCCCCGCGG
GCCCCGCCGAGCAGGAGCAGCTCCCGGGGATGCCCCGGGCGGCTCGGAGCGCGGGCAGCGGCAGCCGTGCGGTGAG
GGCGGTGGCGCCCGCGGGACCTGCGACTGCCAGGAACCTCTGCCACCGCCACCGGCTCCCATGGCCACATACCC
AGTGGGGGTGCCCCAGCAGCGGGGGCAGCCCCCATGGGCCCCCAGTATTGCGTGTGCAAGGTGGAGCTGTCACTG
AGTGGCCAGAACCTACTGGACCGGGATGTTACCTCCAAGTCCGACCCCTTCTGTGTCTCTTTACAGAGAACAAT
GGCAGATGGATCGAGTACGACAGGACAGAAACCGCGATCAACAACCTCAACCCCGCCTTCTCCAAGAAGTTCTGTG
CTTGACTACCACTTCGAGGAGGTACAGAAGCTCAAGTTCGCGCTCTTTGACCAGGACAAGTCCAGTATGCGGCTG
GACGAGCATGACTTCCTGGGCCAGTTCTCCTGCAGCCTGGGCACGATCGTCTCCAGCAAGAAGATCACTAGGCCT
CTGCTGCTGCTGAATGACAAGCCTGCGGGGAAGGGCTTGATTACGATCGCTGCCAGGAGCTGTCCGACAACCGC
GTCATCACACTAAGCCTGGCGGGCAGGAGGTGGACAAGAAGGACCTCTTTGGGAAGTCAGACCCCTTCTGGAG
TTTTATAAGCCAGGAGACGATGGCAAGTGGATGCTGGTCCACAGGACTGAGGTGATCAAGTACACACTGGACCCT
GTGTGGAAGCCATTACAGTGCCTTGGTGTCCCTGTGTGATGGGGACATGGAGAAGCCCATCCAGGTCAATGTGC
TACGACTATGACAATGACGGGGGCCATGACTTCATCGGCGAGTTCAGACCTCAGTGTACAGATGTGTGAGGCT
CGAGACAGCGTCCCGCTGGAGTTCGAGTGCATCAACCCCAAGAAGCAGAGGAAGAAGAAGAACTATAAAAACTCG
GGCATCATCATCCTGCGATCCTGCAAGATAAACCGAGACTACTCCTTCCTTGACTACATCCTGGGAGGCTGCCAG
CTCATGTTACCGTTGGAATAGACTTTACAGCCTCCAACGGGAATCCCCTCGACCCTTCTCTTTGCACTATATC
AACCCTATGGGCACCAACGAATATCTGTGCGCCATCTGGGCTGTTGGGCAGATCATTACAGGACTACGACAGTGAT
AAGATGTTTCCAGCTCTGGGATTCGGGGCCCAGTTACCCCCAGACTGGAAGGTCTCCCATGAGTTTGCCATCAAC
TTCAACCCACCAACCCCTTCTGCTCAGGTGTGGATGGTATTGCCAGGCGTACTCAGCTTGCTGCCCCACATC
CGCTTCTACGGTCTTACCAATTTCTCCCCATCGTCAACCACGTGGCCCGGTTTGCGGGCCAGGCCACACAACAG
CGGACGGCCACGCAGTACTTCATCCTCCTCATCATCACGGACGGGGTTCATCAGTGACATGGAGGAGACACGGCAT
GCCGTGGTGCAGGCTTCCAAGCTGCCCATGTCCATCATCATCGTGGGCGTGGGCAATGCGGACTTCGCTGCCATG
GAGTTCCTGGATGGGGACAGCCGATGCTGCGCTCCCACACGGGGGAGGAGGCAGCCCGCATATTGTGCAGTTC
GTTCCCTTTGAGAGTTCCGCAACGCAGCAAAAAGAGACCTTGGCCAAAGCTGTGCTGGCGGAGCTGCCCCAACAA
GTTGTGCAGTATTTCAAGCATAAAAACTGCCCCCACCACCTCGGAGCCCGCCTGAGCTCCAGTGCCCAGCAGC
AGCATGTCAGCTGAGCCTCCTGCCCTCCCCCAGGAACATGCACGCTCACTCTGCTTCTTGTGGGTGGCCTTTTT
TTACCGATCCCCTTTTTTATTTTTTACAACCGGACCTCCACCCCCAACTTCTCCAGCCCAGCTGGGCTTCCTTT
GTTGGAGTCAACTGTTGATGCTTCCAGGCCAACTGGCTTCTCTCCTCTCTCCACCTTTGCCATTCTTAAG
TATTGAATGTACTTTGTATAATTTTAGTGGAATTGTTATTGAGAATAAAATTTTTACAATCAT

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FIGURE 4533

MRLDEHDFLGQFSCSLGTIVSSKKITRPLLLLNDKPAGKGLITIAAQELSDNRVITLSLAGRRLDKKDLFGKSDP
FLEFYKPGDDGKWMLVHRTEVIKYTLDPVWKPFVPLVSLCDGDMEKPIQVMCYDYDNDGGHDFIGEFQTSVSQM
CEARDSVPLEFECINPKKQRKKKNYKNSGIIILRSCKINRDYSFLDYILGGCQLMFTVGIDFTASNGNPLDPSSL
HYINPMGTNEYLSAIWAVGQIIQDYDSDKMFPA LGFGAQLPPDWKVSHEFAINFNPTNPFCSGVDGIAQAYSACL
PHIRFYGPTNFSPIVNHVARFAAQATQORTATQYFILLIITDGVISDMEETRHAVVQASKLPMSIIIVGVGNADF
AAMEFLDGDSRMLRSHTGEEAARDIVQFVPFREFRNAKETLAKAVLAELPQQVVQYFKHKNLPPTNSEPA

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FIGURE 4534

CGGTGGCGCCGCGCAGTCACCGCGGAGCAGACGCGGAGGCTGGTGGCCCCCTGGGCGAGATGCCGTACGCCAACCA
GCCTACCGTGCGGATCACGGAGCTCACTGACGAGAATGTCAAGTTTCATCATCGAGAACACCGACCTGGCGGTGGC
CAATTCGATTTCGGAGGGTCTTCATCGCTGAGGTTCCCATAGCCATTGACTGGGTTTCAGATTGATGCCAATTC
CTCAGTTCTTCATGATGAATTCATTGCTCACAGGCTTGGATTAATTCCTTCATTAGTGATGACATTGTGGACAA
GCTGCAGTACTCTCGGGACTGCACATGTGAGGAGTTCTGCCCCGAGTGCTCGGTGGAGTTCACCTCGATGTGCG
GTGCAATGAAGACCAGACGCGACATGTCACGTCTCGAGACCTCATCTCCAACAGCCCCGGGTTCATTCCGGTGAC
ATCCCGGAACCGAGATAATGACCCCAATGACTACGTGGAGCAGGATGACATCCTCATCGTCAAGTTGAGAAAGGG
CCAGGAGCTGAGACTTCGAGCCTATGCCAAAAGGGCTTTGGCAAGGAGCATGCCAAGTGGAACCTACTGCAGG
GGTGGCTTTTGAATACGATCCAGACAATGCCCTGAGGCACACAGTGTACCCCAAGCCCGAGGAATGGCCAAAGAG
TGAGTACTCGGAGCTGGATGAGGATGAGTCGCAGGCTCCCTATGACCCCAACGGCAAGCCAGAAAGGTTTTACTA
CAATGTGGAGTCTCTGTGGCTCTCTGCGTCTGAAACCATTGTCTGTGAGCCCTCTCAGGATTGAAGAAGAACT
GAGTGATTTACAACTCAATTAAGCCACGAGATCCAGAGTGATGTGCTAACCATAAATTAAGTGCAGCTTGCCTG
CTTCAGCAAAAACGGAGATTTCAGGCCAGCAGCTGGATATGGGGGTCTCTCTTCAGACTCTTCTCGTTTCTGAGAA
TCTAGTCTACTGTTGGTTGAGCTTCTTGGCAGGACATCAGTACCAACTAGAAGTGGGTCATAGATAGATTACCAG
GGATGCAGTGGTGTTAGGCAGGATAGGTCTTTACTGGCCCTGACTGCTGTTAATAATTGGCAGCAGTGCTCCCC
AGATCCCAGAAGGTCCCTGCTGGAGTGTTTCCAGTGCACCTGTAGGGAACCAACTAGACTTCTCTCCTGGTTAGT
CCAGCTCTTTACTCTAAACCCTTTCTGTCCAAAATGAGTCATTTTCAGTTGTACCTTAGATGTCTGGTGTTGAGG
ATCAAGTGCCATAGCCTTTATTTCAGGGGGCCTATAAACCTTCCAGTTCTTGCCCCAGGGCTGGCCTGCTAGCGC
TTCAAATTTCCAGGTGTCCCTAATTTGAGAAGTAACCTTTTGAATAGCATTAGACCCTGGCTGTCCCCCTCCCCA
CCAAATAAACATGATATTTTATTCTCTGTCCAGCAGTCATGAACCCCTTCACCTCCAATGACCTGATCATTIAGT
TTGGTGGGGGTGGGGGTGGGGGTGGGGGTGGAAGCAGCCGAGGAGCAAGGGCCCCCTCCACATACACAGGAGGA
GTATTTTCAATTTCTCCTTAATGAAGGCTCTGGCCCTAACCCCTCAGCACTGTCTCCAGATAGGAACATGCACAAAG
CAGTTAATTAGGCAGCCTGGAGAAAACCAGAGATCCAGTACAGAAAGGAAAGGATATTTATTGATTAACAGAAGT
TGTCTTTTTTAAAGTGTTTATTTTGGCAATAAAGAGCACACAT

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FIGURE 4535

CCCGGCGCCGCGCCGCGCCCTGCCGCCCCGCCAGCCGCGCCGTGACGCGGGCATGAGCCTGCTCCGCGGCGCCGC
TGAGCAGGCGCTCCTGGCCCGGGCCTCGGCGCCCAGCAGGCGCGGGGCGAAGGAGCTGCTAGAACAAATGCTGAGG
CGGGTGAGGTGAGGAGCAGCCCCTCGCGGCAGCCCCGACAGAGTGTCTGGAACAGGTGATTGGAGGAGCCGGAGA
CCCAGGCACCTGGGCATCCTTCCCCTCGCTCTGCCAGGCCCCGCGCCCCCTAAAAGGTGGGAAAACCATGGCGAC
CAATTTCAAGTGACATCGTCAAGCAAGGCTACGTGAAGATGAAGAGCAGGAAGCTCGGGATCTACCGGAGGTGCTG
GCTGGTGTTCGGGAAATCCTCCAGCAAGGGGCCCCAGCGGCTGGAGAAGTATCCAGATGAGAAGTCGGTGTGCCT
CCGGGGCTGCCCCAAGGTGACTGAGATCAGCAACGTCAAGTGTGTTACGCGGCTCCCCAAGGAGACCAAGCGGCA
GGCGGTGGCCATCATATTTCACTGATGACTCGGCACGTACCTTACCTGCGACTCAGAGCTAGAGGCAGAGGAGTG
GTACAAGACACTATCTGTGGAGTGTCTGGGGTCCCGCCTCAACGACATCAGTCTGGGAGAACCTGACCTCCTGGC
CCCAGGGGTGCAAGTGTGAACAGACAGATCGCTTCAATGTCTTCTGCTGCCCTGCCCCAAGTGGACGTGTATGG
CGAGTGCAAGCTGCAGATCACCCACGAGAATCTACCTCTGGGACATCCACAACCCCCGTGTGAAGCTCGTCTC
GTGGCCCCCTCTGCTCACTGCGCCGCTATGGCCGGGATGCCACACGCTTTACCTTCGAGGCTGGCCGGATGTGTGA
TGCTGGGGAAGGACTCTATACCTTCCAGACACAAGAGGGGGAGCAGATTTACCAGCGCGTCCACAGTGCCACCCT
GGCCATCGCAGAGCAGCACAAGCGGGTCTGCTGGAAATGGAGAAGAAGCTGAGGCTGCTGAACAAGGGCAGCGGA
ACATTACTCGTATCCCTGCACACCCACGACCATGCTGCCGCGCAGTGCCTACTGGCACCACATCACTGGTTCCCA
GAACATCGCCGAAGCCTCCAGCTATGCTGGTGAGGGGTATGGGGCAGCCAGGCCAGCTCGGAAAACAGACCTCCT
CAACAGATTCACTCTGCTAAAGCCAAAGCCCAGCCAGGGGGACAGCAGTGAGGCCAAGACCCCATCCCAGTGACC
ACAGTGCTGGCGAGCACCGATGACTGCTGGGGGCTGCCTGCTGCGGGGCTGGCTGCAGTGACCGTGGACAGCCT
CAGGGGGCTGTGCGCCAAGAGCCTGGAGAAAAGGGAGCAAGCTGCCCCCTCCTTGCCCCAAGGATGAGGCTGGAC
TGAGGCAAGGGCTGGCCACACCACCTGAGCATGTGTGAGGGGTGGAGCTACCGTGGGACTATATACTGTTAAT
GATTTTAATATATATGGCTTATGACATACTCTGTATCAATGAGATCCCCTCACCCCTCACCCCATCCTTCCCCACC
AATACACACAAATTTTTTAATCCCATGACCAGGCCACGGTCAAGGCTGTTTTTGAGTATGAGTGCACTCGTGTCC
ATCCTCCATGGCACAGCCCTCCTGCTGCCAGGACCTGCTTGAACCTACCAGGGCCACAGGAGGGGGATAATCAGAG
CTTGAGGCTGGCACTCTGACTGCTGGCTTTTCCCAAACAGCCCAAGGGCCGGAACAGCAGGTGGCTTCTCAGTTC
CTCTGGGCCTGGAGTGACACAGGAAGGATCTGCACTTCCTCTGTGCTGCTTGCCAGCCTTGCAGTTGGAGTTTA
AGCAGAGGTGACATCTGGTTGACGCTCAGGTGAAAATCTGGTTTTAAATGTAACCTTCTGCACAGGCTCCTTCC
TGCTTTGTAGGCTGGGAAGATGCCCCCTGGGGTAGGGGTGCTGATTACCTCAGCCATGTGGAGGAAGGCTGGAGCT
TGTTCTGCCCCAGGAATAGGCCAGGAGGGAAAGGCCGCAGCAGGACTGCCGTGGGAGCACCCCTGCTGCCCCC
TCTCACTGACCAGGGGTGGACAATGCCAAGCAGAGGGAGCCCCCTTGCCCTGTTTGGCCACCCTCTGGCCAGCC
AAAAGCACTCTGAAACCAAGACCTTCCCATTCCTCCTCCCCACATGGTGCTGAGGCTCCCTGCTGCAATGCAATT
AAAGCAATTGATTTTTCTAGTGCTGGTATTTGTTGACTACCATGCAGAAGGGCTATCTTTCTATTACGTCAAAT
TTTGGTTGTGTGGGTTTTTTTTGTTGTTTTTTGGGTTTTGTTTTTTAATACTTTAGGGTCTGATTTGTGGGAACA
GACCTTCTTGTAATAAACCCTATTTGAGTTGTGGCAGGAGGATGATAAAGCACGCGGCCCTCCCAAAGGAGCC
CTTGAGCTAGGGAGGTGGTGCAGTCAGCCTCGCTCTCAACGTGACCCGGGGAATGACCACCCAGAGGGATGAGCT
AGCCTGTAGAGGGGAAGTGGGGTCCAAAGGTCTTTGGGGAGGGAGGCAGAGCTGGCTGGCTCAGCTAAGTGGCAC
GATGACGCATGAAGGAGATTATGTTGTGCTCTTTATTGCCAAAAATAAACACTTTTAAAAAGAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4536

MATNFSDIVKQGYVKMKSRKLGIIYRRCWLVRKSSSKGPQRLEKYPDEKSVCLRGCPKVTEISNVKCVTRLPKET
KRQAVAIIFTDDSAITFTCDSELEAEWYKTLSECLGSRLNDISLGEPDLLAPGVQCEQTDRFNVFLLPCPNLD
VYGECKLQITHENIYLWDIHNPRVKLVSWPLCSLRRYGRDATRFTFEAGRMCDAGEGLYTFQTQEGEQIYQRVHS
ATLAIAEQHKRVLLEMEKNVRLLNKGTEHYSYPCTPTTMLPR SAYWHHITGSQNIAEASSYAGEGYGAAQASSET
DLLNRFILLKPKPSQGDSSEAKTPSQ

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FIGURE 4537

ATTTTGTGGGTGGGGCTTCAGGTGCCAGCCAGCTGAAGGATGGCCACCCCTGTGGTCACCAAGACAGCCTGGAAG
TTGCAAGAGATCGTCGCGCATGCCAGCAACGTGTCCTCACTGGTGCTGGGCAAAGCCTCCGGGCGGCTGCTGGCT
ACAGGCGGGGATGACTGCCGCGTCAACCTGTGGTCCATCAACAAGCCCAACTGCATCATGAGCCTGACGGGGCCAC
ACATCCCCAGTGGAGAGCGTCCGCTCAACACCCCCGAGGAGCTCATCGTGGCCGGCTCTCAGTCGGGCTCCATC
CGTGTCTGGGACCTGGAAGCTGCCAAAATTCTTCGCACACTCATGGGACACAAAGCCAAACATCTGCAGCCTGGAT
TTCCACCCGTACGGCGAGTTTGTAGCCTCTGGTTCCCAGGACACAAACATCAAGCTCTGGGACATCAGGAGGAAA
GGCTGTGTCTTCCGATACAGGGGGCACAGCCAGGCCGTGCGGTGTCTCCGGTTTCAGCCCCGATGGGAAGTGGTTG
GCGTCGGCCGCAGATGACCACACCGTGAAGCTCTGGGATCTCACTGCCGGCAAGATGATGTCTGAGTTCCTGGT
CACACGGGGCCTGTCAACGTGGTCGAGTTTCACCCCAACGAGTACCTCCTGGCCTCCGGCAGCTCTGACAGGACA
ATCCGCTTCTGGGACCTGGAGAAGTTCCAGGTGGTGAGCTGCATCGAAGGGGAGCCTGGGCCCCGTACAGGAGCGTC
CTCTTCAACCCAGACGGCTGCTGCCTGTACAGCGGCTGCCAGGACTCACTGCGTGTCTACGGCTGGGAACCTGAG
CGGTGCTTTGATGTGGTCTCTCGTCAACTGGGGCAAGGTGGCCGACCTGGCCATCTGCAATGACCAGTTGATAGGT
GTGGCCTTCTCCCAGAGCAACGTCTCCTCCTACGTGGTGGATCTGACGCGTGTACACGAGTGGCACGGTGGCC
CGGGACCTGTGCAGGACCACCGGCCCCCTGGCACAGCCACTGCCCAACCCAGCGCCCCCTCCGGCGCATCTAT
GAGCGGGCCAGCACAACCTGCAGCAAGCCTCAGAGGGTGAAGCAGAACTCAGAGAGCGAGCGCCGAGCCCCAGC
AGCGAGGATGACCGGGACGAGCGCGAGTCCCGCGCGGAGATCCAGAACGCCGAGGACTACAACGAGATCTTCCAG
CCCAAGAACAGCATCAGTCGGACGCCACCCCGGAGAAGTGAGCCCTTCCCTGCACCCCCAGAGGACGACGCAGCC
ACAGCAAAGGAGGCAGCAAAGCCAGCCCTGCCATGGATGTGCAGTTCCCGGTGCCAAATCTGGAGGTCTTGCCC
CGGCCCCCAGTGGTTGCTTCCACACCTGCACCCAAGGCTGAGCCTGCCATCATCCCTGCCACCCGGAACGAGCCC
ATCGGGCTGAAGGCCTCCGACTTCTGCCCCGCGTGAAGATCCCCCAGCAGGCCGAGCTGGTGGACGAGGATGCC
ATGTACAGATCCGCAAAGGCCACGACACCATGTGTGTGGTGCTCACCAGCCGCCACAAGAACCTGGACACTGTG
CGGGCTGTGTGGACCATGGGCGACATCAAGACGTGCGTGGACTCCGCTGTGGCCATCAACGACCTGTGCGTGGTG
GTGGACCTCCTGAACATCGTCAACCAGAAAGCCTCCCTGTGGAAGCTGGACCTGTGCACCACCGTCCTGCCACAG
ATTGAGAAGCTTCTGCAGAGCAAGTATGAGAGCTACGTCCAGACGGGCTGCACCTCCCTGAAGCTGATCCTGCAG
CGGTTTCTGCCCCCTCATCACAGACATGCTGGCGGCCCCACCTCTGTGGGTGTGGATATCAGCAGGGAGGAGAGG
CTGCATAAGTGCCGGCTCTGCTACAAGCAGCTTAAGAGCATCAGCGGCCTGGTCAAGAGCAAGTCAGGCCTGAGC
GGCCGCCATGGCAGTACCTTCCGCGAGCTGCACCTGCTCATGGCCAGTCTGGACTGAGGAAAGCAGTGGGCAGGG
GCGCTCGGCAGCCCACAGGGCCTGGCCTCAGCCCCACTCCTGTTCTTGTGCACCCACTGGCCCATGAGCCTCT
GCCTGGCCCCCTGCTGCTGTCTGTGGCCGTCTGGAGGAGGTGATGCTGGTCCCTGGCCACCTCTACAGCCCTGA
ACTCTTGAGACAACTCTCTCCAGCAATAGCTGCCAGCTTTGCCCAACTGTTGCTTCTTGGGGCAGCGAACTGAG
CCCTGGGGCTGCTGCTGTAATTTATAAGGCAAATTTTATTAAATTTGTAACCTATT

GAGGGCGCTTCCGGCACAGCGGAACTCCGGGTGCCGGTTGAGGTTGCTGGTGACCTGCTCTGGTGGTCTTGGAT
GAGGCCCCATGAGCGCGGCGCCCCCTGGTGGGCTACAGCAGCAGCGGCTCCGAGGATGAGTCCGAGGACGGGATGC
GGACCAGGCCGGGGGATGGGAGCCACCGTCTGTGGCCAGAGCCCCCTTCCAGGCAGAGATTTCCAGTACCTGACA
GTGTGCTGAACATGTTCCCGGGCACCGAGGAGGGGCTGAAGATGACAGCACAAAACACGGGGGACGGGTGCGCA
CCTTCCCCCACGAGCGAGGCAACTGGGCCACCCACGTCTATGTACCATATGAAGCCAAGGAGGAGTTTCTGGATC
TGCTTGATGTGTTGCTGCCCATGCCCAGACATATGTCCCCCGGCTGGTAAGGATGAAGGTGTTCCACCTCAGCC
TGTCCAGAGTGTGGTTCTGCGCCACCACTGGATCCTCCCCCTTCGTGCAGGCTCTGAAAGCCCGTATGACCTCCT
TCCACAGATTCTTCTTTACTGCCAACCAAGGTAAAGATTTACACCAATCAAGAGAAAACCAGGACCTTTATTGGGC
TTGAGGTCACTTCAGGGCATGCCAGTTTCTGGACCTGGTTTCAGAGGTGGACAGAGTCATGGAGGAATTC AAC
TCACCACTTTCTACCAGGATCCTTCTTTCCACCTCAGCCTGGCCTGGTGTGTGGGTGATGCACGTCTCCAGCTGG
AGGGGCAGTGCCTGCAGGAACTACAGGCAATCGTGGATGGGTTTGAAGATGCTGAGGTGCTGCTGCGCGTGCACA
CTGAGCAAGTCCGCTGCAAGTCTGGGAACAAGTTCTTCTCGATGCCTTTGAAGTGAGCACCAGAGGCCTTCTCTC
TCCAGGGCCCTCTGCAGACCAGGCTGAGATGGAGGAACCTGCTAAAAATCGATGGAGATGCTTCTAGCCTCCCAGT
AGGAGGCCCCAGCCATGCCTTCAACCTGGCAGGAGGTGTAGCCACTCCTCATCCTCCCTGAGTGCTGATATTCTC
TCTCTCTCTTTCTCTTCTCTTCTTTCTCTCTCTTCTCTCTTCTCTCTCTTCTCTCTCTTCTCTCTCTCTCTC
TTCTCTCTTCTCTCTTCTCTCTCTCTCTCTCTCTTCTCTCTCTTCTCTCTCTTCTCTCTCTTCTCTCTCTCTC
TCTATCTCTCTCTCTCTCTTACTCTCTCTCTCTCTAAACCTCCTGGCTTTCCTTGCCCTCCTCTCTCTTCTCTCTCT
ATCTCTCTTCTCTCTCTCTCTCTTCCCTTCTCTGTCTCTCTTCCCCCTCCTCTCTCTCTTCTCTGTCTCTATCTCTT
CCCCTCCTCTATCTCTTCTCTCTCTCTCTCTCTTCTCTCTCTCTCTCTCTTCTCTCTCTCTCTCTCTCTCTCTC
TCGGCTGTTGTGGGTTGCAGGTTGGGTGCTGCTGTTGTGGTCCCTCCAGAAACTGCCAGTAGAGGGCAGCCTGG
GCATCCTAATGCTTACTCTGGTTGTTACACAAAGAAAAATATTGGGGTCACTGGCGAGCCCACCCACACTCACCAG
AATCTCCACTGTAGTCCCCCTAACAACAGCCCTTCACTTCTCTCTCCACTTCAGCAATTTGTATTTTGATGCCA
TTGGCCTCAGATCAGAGTGTTTTAAATCATCACGCCCTGGCTTATCCCTGGTCGAGCCAGGACACGGGGTGCTTC
AGTGGGTCTGTACCCCTCTCTCCTTGAAGCATGTTGCTTTTATTTATTTACTTTTACTCTCACCCCTGCTCCTGTA
CCAGCAGGGGCCACTTCAAAGCCAAGGTACAGGGTGATAACTTGTGGTCCAGCATCAGTTTTCTCCACTTCTTTC
TCCCACTCACCCCCAGCAAGGTGCCTGGGGAGACTTGAGCAGATGTTTCATTTTGGCCTGGCCAGTGGCTGAAAG
CCAGGCCTCCAATGCACTGTGACCTCTGGCTTCCCCAGCAGCTTTCAGAGAGGCAGAGGGGCCTTCCACAGCC
CGGGTTCTCCTGCTGCCTCCTGCCTGCTGCAGCTGCAGGCATTCTGAGGGGCAACGTGGAGGAAGGGCCAGGGAT
GCATGGGATTTTAAATTGTTTCATCACACCTTCCCCGTGGCAAAGAAACAGTCAGTCCTCTTCAGGTGTCTTCTGG
ATTTCTGGTGATGGACAGAGAAATCTTTTTACAGTTTCAAATTATGTTCAACAAATAAAAATTGCATTTTTT

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FIGURE 4539

CCGCTTCCCCGTCTTGTACACCCCTAACTCCTGAGGCTCCTCCGAATCACGCGAGTGGAAGCGGAGAAGCTCAAG
TGGCCGCCATGTCAGAGGCTTATTTCCGAGTGGAGTCGGGTGCGCTGGGGCCTGAGGAGAACTTTCTTTCTTTGG
ACGACATCCTGATGTCCACGAGAAGCTGCCGGTGCGCACGGAGACCGCCATGCCTCGCCTTGGCGCTTTCTTCC
TGGAGCGGAGCGCAGGCGCCGAGACTGACAACGCGGTCCCACAGGGTTCCAAGCTTGAACCTACCCTTGTGGCTGG
CAAAAGGACTTTTTGACAACAAGCGACGGATCCTTTCTGTGGAACCCCCAAGATCTACCAAGAGGGTTGGAGGA
CTGTGTTTCACTGCAGATCCCCAATGTGGTGGACCTCCACAAAATGGGGCCCCATTTCTACGGGTTTGGCTCCCAGC
TCCTGCATTTTGACAGTCCCGAGAATGCAGACATTTCCAGTCTCTGCTGCAGACTTTTATCGGACGTTTTTCGCC
GCATCATGGACTCCTCACAGAATGCTTACAACGAAGACACTTCAGCCCTGGTAGCCAGGCTAGACGAGATGGAGA
GGGGCTTATTTCAAACAGGGCAGAAAGGACTGAATGACTTTTCAGTGTGGGAGAAAGGGCAGGCTTCTCAGATCA
CAGCTTCCAACCTCGTTTCAGAATTACAAGAAGAGAAAATTCAGTATATGGAAGACTTGAAAGCCGGAAGAACACA
GAATGGCTCCTCACAGACGTATCCCTCCGTGTGTCCTTGATAGGAGCTGGTTGACCTTGTACAGAACCAGAATCC
TGTCCCATTTCATGGCTTATTTCCGTGTGGCCATAGAGAATTATAGGGAACCTGGACATGCTGGAGGATGTGGGTGT
CCCTGGCTCTGTGAGTCTTCCAGGACCGTCCCACCCTGCTGACCCACAGCCCAGGCCCTTTAACCCAAGAACCCA
TGGCCAAGGAGAAATCAAAGTCCTTCCATAATAAGAATCACTGCCATATAATATATCACAGTAGAGTTGCAACTG
AGATTCCCTGTGTCTGGGAGTTTGGACAGCTTCAGATGTACAGTTTCACTAGCCACAAAGCACAGGTACAAACTG
GGTCATCGCCTGTTACAAAATGCTCTCTTGATCTTATTTGCCTCATCTTCCTCATGGTTGTACAGAGGATAGCA
CCCCACCATGCCAGCCTGACTTGGAGATATCTCCTGCTGCCTGCCTGCAGGGAGTTACCCAGTTTCCAAAACA
GTCGCCCAGATAAAGGAGGAAAAGGGAAAGGCAGACGAATGGCATGGCTTTTACTAAAGAAAAGATGTTGGCCTC
ATACTCTATACTCAGGGCTTAATGAACTGGAATCTGCATAACTCAGCAGTCAACCCAGAAGGGAAATGGTTAAAC
TGAGCTTGTTATTGCCTCGGAGAGCCTAAGAGCACCCGCACACTTAATTCTACTCCCTGTCTAGAAAAGCTGTCA
GGGAGTCGTTTGGAATTGCAATGTAGTTATTAAGGGCTGTTAACCAGCCTGCATTACATCTGGAAGTCAGGACTT
GGGTGCTGACTATGAAGGGCCCTGTTTTCAAATCTAACATTGCAAGTGTAATGGGCAAGAAGCCTCCGTTGTG
CTTTTTTTTTCTCTTTCAGTAACTTTTGCAACATTATTGCATAGAAGATCCCTGACCATTTACTAGGAACCTGGT
TAAGCAAGCACTAATCTCTTTTCTGGAGATCAAGGATGCAACCTCAGGTTGAGAAAGAAACAGGGTTCCCTGGG
CCCATTAGACTGTTTGCAGGGCATCACTGCTTCCCCCTGACACCTCACAACTAGCAAAAATTGTCTTTGTCTTTG
GAAATTATAGAGGGATTTGGGTATCCAGATTGTGCAGATGCAAACTTAGGCTGTCTTGATGCAAACTTAGAACCA
CAGAAATGCTTTTAAATGCCTGTTTTAAGATGGAATTGTTGTTTTTATAATTTGATTTTAGTGCTAAATAAATG
ATTGGCTTTGTACATGAATATGTTCTGTACAAGTGCTCTTTCAGTAGTACTACAGATAATCAAAGCTATCAGAA
TGTGTCTTTGATCATATTTGACGGTAATACACAAATAAATCCATGTTTTAGCAAAAAAAAAAAAAAAAAAAAAA

A

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FIGURE 4540

MSEAYFRVESGALGPEENFLSLDDILMSHEKLPVRTETAMPRLGAFFLERSAGAETDNAVPOGSKLELPLWLAKG
LFDNKRRILSVELPKIYQEGWRTVFSADPNVVDLHKMGPHFYGFSGQLLHFDSPENADISQSLLQTFIGRFRRIM
DSSQNAYNEDTSALVARLDEMERGLFQTGQKGLNDFQCWEKGQASQITASNLVQNYKKRKFTDMED

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FIGURE 4541

GGTCCACCAATGGCCCTGCTGCACTCCGGCCGCGTCCTCCCCGGGATCGCCGCCGCCTTCCACCCGGGCCTCGCCG
CCGCGGCCCTCTGCCAGAGCCAGCTCCTGGTGGACCCATGTGGAAATGGGACCTCCAGATCCCATTCTGGGAGTCA
CTGAAGCCTTTAAGAGGGACACCAATAGCAAAAAGATGAATCTGGGAGTTGGTGCCTACCGGGATGATAATGGAA
AGCCTTACGTTCTGCCTAGCGTCCGCAAGGCAGAGGCCAGATTGCCGCAAAAAATTTGGACAAGGAATACCTGC
CCATTGGGGGACTGGCTGAATTTTGCAAGGCATCTGCAGAACTAGCCCTGGGTGAGAACAGCGAAGTCTTGAAGA
GTGGCCGGTTTGTCACTGTGCAGACCATTTCTGGAAGTGGAGCCTTAAGGATCGGAGCCAGTTTTCTGCAAAGAT
TTTTTAAGTTCAGCCGAGATGTCTTTCTGCCCAAACCAACCTGGGGAAACACACACCCCATCTTCAGGGATGCTG
GCATGCAGCTACAAGGTTATCGGTATTATGACCCCAAGACTTGCGGTTTTGACTTCACAGGCGCTGTGGAGGATA
TTTCAAAAATACCAGAGCAGAGTGTTCTTCTTCTGCATGCCTGCGCCCAATCCACGGGAGTGGACCCGCGTC
CGGAACAGTGGAAGGAAATAGCAACAGTGGTGAAGAAAAGGAATCTCTTTGCGTTCTTTGACATGGCCTACCAAG
GCTTTGCCAGTGGTGATGGTGATAAGGATGCCTGGGCTGTGCGCCACTTCATCGAACAGGGCATTAAATGTTTGCC
TCTGCCAATCATATGCCAAGAACATGGGCTTATATGGTGAGCGTGTAGGAGCCTTCACTATGGTCTGCAAAGATG
CGGATGAAGCCAAAAGGGTAGAGTCACAGTTGAAGATCTTGATCCGTCCTCATGTATTCCAACCCTCCCCTCAATG
GGGCCCCGATTGCTGCTGCCATTCTGAACACCCAGATTTGCGAAAACAATGGCTGCAAGAAGTGAAAGTCATGG
CTGACCGCATCATTGGCATGCGGACTCAACTGGTCTCCAACCTCAAGAAGGAGGGTTCCACCCACAATTGGCAAC
ACATCACCGACCAAATTTGGCATGTTCTGTTTTACAGGGCTAAAGCCTGAACAGGTGGAGCGGCTGATCAAGGAGT
TCTCCATCTACATGACAAAAGATGGCCGCATCTCTGTGGCAGGGGTCACCTCCAGCAACGTGGGCTACCTTGCCC
ATGCCATTACCAGGTCACCAAGTAATGTCCCTGGTGGCAGGAAACAGAGACAACCTTTCTGTCTTCAGCCTCTG
CTATTGAGAGCTTCACACAGACAATGAGAGAGGGTGGATGGTGGTGAAGTGGATCATTCTTTTCAGCCACAGTGTG
TAACACTCAGCATTGGAATGTTTCTCAGAAAAGAACATGTAGTGACACAGGGCAGAGGCATCCATGGCTGGCGTC
TGGAATATTAAACCAAACCTCTCCCCGGTCTTTTTTTCTCCAACCTTTCTCAAAGAGTTTACATGTGCAAGAAAGT
CATCGCACCAAAAAACCTGTCAATTATGCCATTGCAATATTTTCAAGAGCTTTAACTGAAGTGTGAGGTTCTCTCGT
GAGAAACAGCACACGTTAGAGGCTTTGAGAGAAGGCCTAGTTCTGTGATGAGTAGTCGGCCTCGTGTCTGTCTCTC
CCATCTTGGAACAACCTTATCAACAGGCCGCACTGCAGAAATGATGTTTTATGAAAACCAATGAGGCTGCTGCCA
CTCCAGCAAGGGAAATAATGCAGTTTCTGTCTTATTTAAGAAAAAGAGAAGGCTCTCTTTTCTCCCTTGTCATT
GCCGTTCTTTTCTTACACGCAAAGATTTTTTAACTATTGCAGATTTTCATCCATTCTACTGCTTGATTGACCA
TCAACTCCATCTATCGAGATTTATTTAAGAATGAAGAACATAATTTTCTGCTGATGCTGTACCCCTCACCTTTT
CAGCAAAGAATAGTGGAGAGTAGGAACTGTACTTTATCTCGGCATCCTCTTGAATGATAGTGCAAGTTTCTCCA
GTTGGGATGTTGTCTCTGCCCGGTTGGACCTCCTCCCTTTGTTGAATGTGGTGTGCAGCCTCTCATCTCACACTG
TGAGTCCAGCGGCGCAGGGTGGTACCAGGAAAGAGGATATTCTAGGCTTTGCGTGCTGCTAGCTGGGTTTCAAGCT
TCACCCACTGGAAAGAACCACCATCTGCTCTAACCATGTAGACTTATTGCGGCCTGGTTTTCTCTGTTACAATAAA
ATTACTGTAGACCC

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FIGURE 4542

MALLHSGRVLPGIAAAFHPLAAAASARASSWTHVEMGPPDPILGVTEAFKRD TNSKKMNLGVGAYRDDNGKPY
VLPSVRKAEAQIAAKNLDKEYLP IGGLAEFCKASAELALGENSEVLKSGRFVTVQTISGTGALRIGASFLQRFFK
FSRDVFLPKPTWGNHTPIFRDAGMQLQGYRYYPKTCGFDFGTGAVEDISKIPEQSVLLLHACAHNPTGVDPRPEQ
WKEIATVVKKRNLF AFFDMAYQGFASGDGDKDAWAVRHFIEQGINVCLCQSYAKNMGLYGERVGAF TMVCKDADE
AKRVESQLKILIRPMYSNPPLNGARIAAAILNTPDLRKQWLQEVKVMADRIIGMRTQLVSNLKKEGSTHNWQHIT
DQIGMFCFTGLKPEQVERLIKEFSIYMTKDGRISVAGVTSSNVGYLAHAHQVTK

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FIGURE 4543

ATCTGCAGTGGAGCCGCCACCAAAATGCAGATTTTCGTGAAAACCCCTTACGGGGAAGACCATCACCCCTCGAGGTT
GAACCCTCGGATACGATAGAAAATGTAAAGGCCAAGATCCAGGGTAAGGAAGGAATTCCTCCTGATCAGCAGAGA
CTGATCTTTGCTGGCAAGCAGCTGGAAGATGGACGTACTTTGTCTGACTACAATATTCAAAAAGGAGTCTACTCTT
CATCTTGTGTTGAGACTTCTGGTGGTGCTAAGAAAAGGAAGAAGAAGTCTTACACCACTCCCAAGAAGAATAAGC
ACAAGAGAAAGAAGGTTAAGCTGGCTGTCCTGAAATACTATAAGGTGGATGAGAATGGCTTTATGGCAAGCCACT
TTGACAGACATTATTGTGGCAAATGTTGTCTGACTTACTGCTTCAACAAACCAGAAGACAAGTAACTGTATGAGT
TAATAAA

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FIGURE 4544

ATGGCGGACCTTGATTGCGCTCCGAAGCTGTCAGGGGTGCAGCAGCCGTCTGAGGGGGTGGGAGGTGGCCGCTGC
TCCGAAATCTCCGCTGAGCTCATTGCTCCCTGACAGAGCTGCAGGAGCTGGAGGCTGTATACGAACGGCTCTGC
GGCGAGGAGAAAGTGGTGGAGAGAGAGCTGGATGCTCTTTTGGAACAGCAAAACACCATTGAAAGTAAGATGGTC
ACTCTCCACCGAATGGGTCCTAATCTGCAGCTGATTGAGGGAGATGCAAAGCAGCTGGCTGGAATGATCACCTTT
ACCTGCAACCTGGCTGAGAATGTGTCCAGCAAAGTTCGTCAGCTTGACCTGGCCAAGAACC GCCTCTATCAGGCC
ATTCAGAGAGCTGATGACATCTTGGACCTGAAGTTCTGCATGGATGGAGTTCAGACTGCTTTGAGGAGTGAAGAT
TATGAGCAGGCTGCAGCACATACTCATCGCTACTTGTGCTGGACAAGTCGGTCATTGAGCTCAGCCGACAGGGC
AAAGAGGGGAGCATGATTGATGCCAACCTGAAATTGCTGCAGGAAGCTGAGCAACGTCTCAAAGCCATTGTGGCA
GAGAAGTTTGCCATTGCCACCAAGGAAGGTGATCTGCCCCAGGTGGAGCGCTTCTTCAAGATCTTCCCACTGCTG
GGTTTGCATGAGGAGGGATTAAAGAAAGTTCTCGGAGTACCTTTGCAAGCAGGTGGCCAGTAAAGCTGAGGAGAAT
CTGCTCATGGTGTCTGGGGACAGACATGAGTGATCGGAGAGCTGCAGTCATCTTTGCAGATACACTTACTCTTCTG
TTTGAAGGGATTGCCCGCATTGTGGAGACCCACCAGCCAATAGTGGAGACCTATTATGGGCCAGGGAGACTCTAT
ACCCTGATCAAATATCTGCAGGTGGAATGTGACAGACAGGTGGAGAAGGTGGTAGACAAGTTCATCAAGCAAAGG
GACTACCACCAGCAGTTCCGGCATGTTTCAAGAACCTGATGAGAAATTCTACAACAGAAAAAATCGAACCAAGA
GAACTGGACCCCATCCTGACTGAGGTCAACCTGATGAATGCCCGCAGTGAGCTATACTTACGCTTCCTCAAGAAG
AGGATTAGCTCTGATTTTGAGGTGGGAGACTCCATGGCCTCAGAGGAAGTAAAGCAAGAGCACCAGAAGTGTCTG
GACAAACTCCTCAATAACTGCCTTTTGAGCTGTACCATGCAGGAGCTAATTGGCTTATATGTTACCATGGAGGAG
TACTTCATGAGGGAGACTGTCAATAAGGCTGTGGCTCTGGACACCTATGAGAAGGGCCAGCTGACATCCAGCATG
GTGGATGATGTCTTCTACATTGTTAAGAAAGTGATTGGGCGGGCTCTGTCCAGCTCCAGCATTGACTGTCTCTGT
GCCATGATCAACCTCGCCACCACAGAGCTGGAGTCTGACTTCAGGGATGTTCTGTGTAATAAGCTGCGGATGGGC
TTTCCTGCCACCACCTTCCAGGACATCCAGCGCGGGGTGACAAGTGCCGTGAACATCATGCACAGCAGCCTCCAG
CAAGGCAAATTTGACACAAAAGGCATCGAGAGTACTGACGAGGCGAAGATGTCCTTCTGGGACATATTCTGAGT
CACCTGAGCCACGATAGAGGCTGGGCTGTCCAGCTGTCACCTAGAATTCAATCCCCAGAGCACTGGCCAGCTGCT
CAGGAGCCCCACTGAGTGCCAAGCTTGGCTTGCATCTGCCACAGAACCAGCTCTACCATCTGTGCCAGACCACCAG
ACTGCTTCTCTGAGGAGAGGCCCCGAGCATGGGCGAGCGCCAGTCTTCGGGCCTGCCATCACTGCTCTGCTAGT
ACATGTCTTAGGCTTTCAACTTCCTCTGGAAAGGAGGCTTTATTAAAGCCCTTTGCTACCCAGAATGACAGATGT
GATAAAGCAGCAAGCCTTCCATTGTGTGACAGCTTGAAAGGAGGAGCACAGAAGGATGA

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FIGURE 4545

GGCACGAGGCAGCGTCAGCTGACCTGGGGAGTCGCGATTTCGTGCCGGCCGGTCCCTGGTTCTCCGGTCCCCGCCGCT
CCCCGAGCAGCCATGTCGTTCTTCCCGAGCTTTACTTTAACGTGGACAATGGCTACTTGGAGGGACTGGTGCGC
GGCCTGAAGGCCGGGGTGCTCAGCCAGGCCGACTACCTCAACCTGGTGCACTGCGAGACGCTAGAGGACTTGAAA
CTGCATCTGCAGAGCACTGATTATGGTAACTTCCTGGCCAACGAGGCATCACCTCTGACGGTGTCAGTCATCGAT
GACCGGCTCAAGGAGAAGATGGTGGTGGAGTTCCGCCACATGAGGAACCATGCCTATGAGCCACTCGCCAGCTTC
CTAGACTTCATTACTTACAGTTACATGATCGACAACGTGATCCTGCTCATCACAGGCACGCTGCACCAGCGCTCC
ATCGCTGAGCTCGTGCCCAAGTGCCACCCACTAGGCAGCTTCGAGCAGATGGAGGCCGTGAACATTGCTCAGACA
CCTGCTGAGCTCTACAATGCCATTCTGGTGGACACGCCTCTTGCGGCTTTTTTCCAGGACTGCATTTTCAGAGCAG
GACCTTGACGAGATGAACATCGAGATCATCCGCAACACCCTCTACAAGGCCTACCTGGAGTCCTTCTACAAGTTC
TGCACCCTACTGGGCGGGACTACGGCTGATGCCATGTGCCCCATCCTGGAGTTTGAAGCAGACCGCCGCGCCTTC
ATCATCACCATCAATTCTTTCCGGCACAGAGCTGTCCAAAGAGGACCGTGCCAAGCTCTTTCCACACTGTGGGCGG
CTCTACCCTGAGGGCCTGGCGCAGCTGGCTCGGGCTGACGACTATGAACAGGTCAAGAACGTGGCCGATTACTAC
CCGGAGTACAAGCTGCTCTTCGAGGGTGCAAGTAGCAACCCTGGAGACAAGACGCTGGAGGACCGATTCTTTGAG
CACGAGGTAAAGCTGAACAAGTTGGCCTTCCTGAACCAGTTCCACTTTGGTGTCTTCTATGCCTTCGTGAAGCTC
AAGGAGCAGGAGTGTGCAACATCGTGTGGATCGCTGAATGTATCGCCAGCGCCACCGCGCCAAAATCGACAAC
TACATCCCTATCTTCTTAGCGTCCTGGCCCCAAGGCTCTCAATTGCACTCTTTGTGTGTGTGTGTGTGTGTGTGCGC
GTGTGTGTGCGTGTGTGTGTATGTGGTCTGTGACAAGCCTGTGGCTCACCTGCCTGTCCGGGGTGTAGTACGCTG
TCCTAGCGGCTGCCCAGTTCTCCTGACCTCTTAGAGACTGTTCTTAGGCCTGAAAAGGGGCTGGGCACCCCCC
CCACCAAGGATGGACGAAGACCCCTCCAGAGCAAGGAGGCCCTCAGCCCTGTGGTTACAGCCGCTGATGTAT
CTAAGAAGCATGTCACTTTTCATGTTCTCCTAACTCCCTGACCTGAGAACCCTGGGGCCTGGGGGCAGTTTGAG
CCTCCTCTCCCTTCTGTGGGTGCTCCAGAGCCATGGCCCATGGGAAGGACAGAGTGTGTGTGTCTTGGGGCC
TGGGGGGATGTTGCTCCTCAGCTCCCTCCCTCAGCCCTGCCCTCTGAGACAATAAACTGCCCTCTCTAAGGCA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4546

MSFFPELYFNVDNGYLEGLVRGLKAGVLSQADYLNLVQCETLEDLKLHLQSTDYGNFLANEASPLTVSVIDDRLK
EKMVVEFRHMRNHAYEPLASFDFITYSYMIDNVILLITGTLHQRSIAELVPKCHPLGSFEQMEAVNIAQTPAEL
YNAILVDTPLA AFFQDCISEQDLDEM NIEIIRNTLYKAYLESFYKFCTLLGGTTADAMCPILEFEADRRAFIITI
NSFGTELSKEDRAKLFPHCGRLYPEGLAQLARADDYEQVKNVADYYPEYKLLFEGAGSNPGDKTLED RFFEHEVK
LNKLAFLNQFHFGVFYAFVKLKEQE CRNIVWIAECIAQRHRAKIDNYIP IF

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FIGURE 4547

CGCGCCCCAGGCCGGTGTACCCCCGCACTCCGCGCCCCGGCCTAGAAGCTCTCTCTCCCCGCTCCCCGGCCCCGGC
CCCCGCCCCGCCCCGCCCCAGCCCGCTGGGCGGCCATGGAGCGCTGGCCTTGGCCGTCGGGCGGCGCCTGGCTGC
TCGTGGCTGCCCGCGCGCTGCTGCAGCTGCTGCGCTCAGACCTGCGTCTGGGCGCGCCGCTGCTGGCGGCGCTGG
CGCTGCTGGCCGCGCTCGACTGGCTGTGCCAGCGCCTGCTGCCCCGCGCGGCCGCACTCGCCGTGCTGGCCGCCG
CCGGCTGGATCGCGTTGTCCCGCCTGGCGCGCCCCGAGCGCCTGCCGGTGGCCACTCGCGCGGTGCTCATCACCG
GCTGTGACTCTGGTTTTGGCAAGGAGACGGCCAAGAACTGGACTCCATGGGCTTCACGGTGTGGCCACCGTAT
TGGAGTTGAACAGCCCCGGTGCCATCGAGCTGCGTACCTGCTGCTCCCCTCGCCTAAGGCTGCTGCAGATGGACC
TGACCAAACCAGGAGACATTAGCCGCTTGCTAGAGTTACCAAGGCCACACCACCAGCACCGGCCTGTGGGGCC
TCGTCAACAACGCAGGCCACAATGAAGTAGTTGCTGATGCGGAGCTGTCTCCAGTGGCCACTTTCCGTAGCTGCA
TGGAGGTGAATTTCTTTGGCGCGCTCGAGCTGACCAAGGGCCTCCTGCCCCCTGCTGCGCAGCTCAAGGGGCCGCA
TCGTGACTGTGGGGAGCCCAGCGGGGGACATGCCATATCCGTGCTTGGGGGCCTATGGAACCTCCAAAGCGGCCG
TGGCGCTACTCATGGACACATTCAGCTGTGAACCTCTTCCCTGGGGGGTCAAGGTCAGCATCATCCAGCCTGGCT
GCTTCAAGACAGAGTCAGTGAGAAACGTGGGTGAGTGGGAAAAGCGCAAGCAATTGCTGCTGGCCAACTGCCTC
AAGAGCTGCTGCAGGCCTACGGCAAGGACTACATCGAGCACTTGATGGGCAGTTCCCTGCACTCGCTACGCCTGG
CCATGTCCGACCTCACCCCAGTTGTAGATGCCATCACAGATGCGCTGCTGGCAGCTCGGCCCCGCGCCGCTATT
ACCCCGGCCAGGGCCTGGGGCTCATGTACTTTCATCCACTACTACCTGCCTGAAGGCCTGCGGCGCCGCTTCCTGC
AGGCCTTCTTCATCAGTCACTGTCTGCCTCGAGCACTGCAGCCTGGCCAGCCTGGCACTACCCACCACAGGACG
CAGCCCAGGACCCAAACCTGAGCCCCGGCCCTTCCCCAGCAGTGGCTCGGTGAGCCATGTGCACCTATGGCCCAG
CCACTGCAGCACAGGAGGCTCCGTGAGCCTTGTTTCTCCCCGAAAACCCCCAGCATTACGATCCCCCAAGTGTC
CTGGACCCTGGCCTAAAGAATCCCACCCCCACTTCATGCCCCACTGCCGATGCCCAATCCAGGCCCGGTGAGGCCA
AGGTTTCCAGTGAGCCTCTGCGCCTCTCCACTGTTTTCATGAGCCCAAACACCCTCCTGGCACAAACGCTCTACCC
TGCAGCTTGGAGAACTCCGCTGGATGGGAGTCTCATGCAAGACTTCACTGCAGCCTTTCACAGGACTCTGCAGAT
AGTGCCTCTGCAAACTAAGGAGTGA TAGGTGGGTGGGGACCCCTCAGGATTGTTTCTCGGCACCAGTGCCTC
AGTGCTGCAATTGAGGGCTAAATCCCAAGTGTCTCTTGACTGGCTCAAGAATTAGGGCCCCAACTACACACCCCC
AAGCCACAGGGAAGCATGTACTGTACTTCCCAATTGCCACATTTTAAATAAAGACAAATTTTATTCTTCTA

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FIGURE 4548

MERWPWPSSGGAWLLVAARALLQLLRSDLRLGRPLLAALALLAALDWLCQRLPPPAALAVLAAAGWIALSRLARP
QRLPVATRAVLITGCDSGFGKETAKKLDMSGFTVLATVLELNSPGAIELRTCCSPRLRLLQMDLTKPGDISRLLE
FTKAHTTSTGLWGLVNNAGHNEVVADAELSPVATFRSCMEVNFFGALELTGGLLPLLRSSRGRIVTVGSPAGDMP
YPCLGAYGTSKAAVALLMDTFSCELLPWGVKVSIIQPGCFKTESVRNVGQWEKRKQLLLANLPQELLQAYGKDYI
EHLHGQFLHSLRLAMSDLTPVVDAITDALLAARPRRRYYPGQGLGLMYFIHYLPEGLRRRFLQAFFISHCLPRA
LQPGQPGTTPPDAAQDPNLSPGPSPAVAR

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FIGURE 4549A

AGTGGCGTCGGAAGTGCAGCAAGCACCTGTGAGCTTGCGGAAGTCAGTTTCAGACTCCAGCCCCGCTCCAGCCCCGGCCC
GACCCGACCGCACCCGGCGCCTGCCCTCGCTCGGCGTCCCCGGCCAGCCATGGGGCCCTTGGAGCCGCAGCCTCTC
GGCGCTGCTGCTGCTGCTGCAGGTCTCCTCTTGGCTCTGCCAGGAGCCGGAGCCCTGCCACCCTGGCTTTGACGC
CGAGAGCTACACGTTACGGTGCCCCGGCGCCACCTGGAGAGAGGCGCGTCTGGGCAGAGTGAATTTTGAAGA
TTGCACCGGTGCAGAAAGGACAGCCTATTTTTCCCTCGACACCCGATTCAAAGTGGGCACAGATGGTGTGATTAC
AGTCAAAGGCCTCTACGGTTTCATAACCCACAGATCCATTTCTTGGTCTACGCCTGGGACTCCACCTACAGAAA
GTTTTCCACCAAAGTCACGCTGAATACAGTGGGGCACCACCACCGCCCCCGCCCCATCAGGCCTCCGTTTCTGG
AATCCAAGCAGAATTGCTCACATTTCCCAACTCCTCTCCTGGCCTCAGAAGACAGAAGAGAGACTGGGTATTCC
TCCCATCAGCTGCCCAGAAAATGAAAAAGGCCCATTTCTTAAACCTGGTTCAGATCAAATCCAACAAAGACAA
AGAAGGCAAGGTTTTCTACAGCATCACTGGCCAAGGAGCTGACACACCCCTGTTGGTGTCTTTATTATTGAAAG
AGAAACAGGATGGCTGAAGGTGACAGAGCCTCTGGATAGAGAACGCATTGCCACATACACTCTCTCTCTCACGC
TGTGTCTATCCAACGGGAATGCAGTTGAGGATCCAATGGAGATTTTGATCACGGTAACCGATCAGAATGACAACAA
GCCCCAATTCACCCAGGAGGTCTTTAAGGGGTCTGTCTATGGAAGGTGCTCTTCCAGGAACCTCTGTGATGGAGGT
CACAGCCACAGACGCGGACGATGATGTGAACACCTACAATGCCGCCATCGTTACACCATCCTCAGCCAAGATCC
TGAGCTCCCTGACAAAAATATGTTTACCATTAAACAGGAACACAGGAGTCATCAGTGTGGTCACTACTGGGCTGGA
CCGAGAGAGTTTTCCCTACGTATACCCCTGGTGGTTCAGCTGCTGACCTTCAAGGTGAGGGGTTAAGCACAAACAGC
AACAGCTGTGATCACAGTCACTGACACCAACGATAATCCTCCGATCTTCAATCCCACCACGTACAAGGGTCAGGT
GCCTGAGAACGAGGCTAACGTCGTAATCACCACTGAAAGTGACTGATGCTGATGCCCCCAATACCCAGCGTG
GGAGGCTGTATACACCATATTGAATGATGATGGTGGACAATTTGTCTGTCACCACAAATCCAGTGAACAACGATGG
CATTTTGAAACAGCAAAGGGCTTGGATTTTGAGGCCAAGCAGCAGTACATTCTACAGTAGCAGTGACGAATGT
GGTACCTTTTGAGGTCTCTCTCACCACTCCACAGCCACCGTCACCGTGGATGTGCTGGATGTGAATGAAGCCCC
CATCTTTGTGCCTCCTGAAAAGAGAGTGGAAGTGTCCGAGGACTTTGGCGTGGGCCAGGAAATCACATCCTACAC
TGCCCAGGAGCCAGACACATTTATGGAACAGAAAATAACATATCGGATTTGGAGAGACACTGCCAACTGGCTGGA
GATTAATCCGGACACTGGTGCCATTTCCACTCGGGCTGAGCTGGACAGGGAGGATTTTGAGCACGTGAAGAACAG
CACGTACACAGCCCTAATCATAGCTACAGACAATGGTTCTCCAGTTGCTACTGGAACAGGGACACTTCTGCTGAT
CCTGTCTGATGTGAATGACAACGCCCCCATAACCAGAACCTCGAACTATATTCTTCTGTGAGAGGAATCCAAGCC
TCAGGTCAATAACATCATTGATGCAGACCTTCTCCCAATACATCTCCCTTCACAGCAGAACTAACACACGGGGC
GAGTGCCAACCTGGACCATTAGTACAACGACCCCAACCAAGATCTATCATTTTGAGCCAAAGATGGCCTTAGA
GGTGGGTGACTACAAATCAATCTCAAGCTCATGGATAACCAGAAATAAGACCAAGTGACCACCTTAGAGGTCAG
CGTGTGTGACTGTGAAGGGGCCGCGGCGTCTGTAGGAAGGCACAGCCTGTGCAAGCAGGATTGCAAATTCCTGC
CATCTGGGGATTCTTGGAGGAATCTTGCTTTGCTAATCTGATTCTGCTGCTCTTGCTGTTTCTTCGGAGGAG
AGCGGTGGTCAAAGAGCCCTTACTGCCCCAGAGGATGACACCCGGGACAACGTTTATTACTATGATGAAGAAGG
AGGCGGAGAAGAGGACCAGGACTTTGACTTGAGCCAGCTGCACAGGGGCTGGACGCTCGGCTGAAGTGACTCG
TAACGACGTTGCACCAACCCTCATGAGTGTCCCCCGGTATCTTCCCCGCCCTGCCAATCCCGATGAAATTGGA
TTTTATTGATGAAATCTGAAAGCGGCTGATACTGACCCACAGCCCCGCTTATGATTCTCTGCTCGTGTGTTGA
CTATGAAGGAAGCGGTTCCGAAGCTGCTAGTCTGAGCTCCCTGAACTCCTCAGAGTCAGACAAAGACCAGGACTA
TGACTACTTGAACGAATGGGGCAATCGCTTCAAGAAGCTGGCTGACATGTACGGAGGCGGCGAGGACGACTAGGG
GACTCGAGAGAGGCGGGCCCCAGACCCATGTGCTGGGAAATGCAGAAATCACGTTGCTGGTGGTTTTTCAGCTCC
CTTCCCTTGAGATGAGTTTTCTGGGGAAAAAAGAGACTGGTTAGTGATGCAGTTAGTATAGCTTTTATACTCTCT
CCACTTTATAGCTCTAATAAGTTTGTGTTAGAAAAGTTTCGACTTATTTCTTAAAGCTTTTTTTTTTTTCCCATC
ACTCTTTACATGGTGGTGTATGTCCAAAAGATACCCAAATTTTAATATTCCAGAAGAACAACTTTAGCATCAGAAG
GTTACCCAGCACCTTGCAGATTTTCTTAAGGAATTTTGTCTCACTTTTAAAAAGAGGGGAGAGTCAGCTACT
CTAGTTCGTGTTTGTGTATATAATTTTTTAAAAAATTTGTGTGCTTCTGCTCATTACTACACTGGTGTGT
CCCTCTGCCTTTTTTTTTTTTTTAAAGACAGGCTCTATTCTATCGGCCAGGCTGGAGTGCAATCAC
AGCTCACTGCAGCCTTGTCTCCAGGCTCAAGCTATCCTTGCACCTCAGCCTCCCAAGTAGCTGGGACCACAGG
CATGCACCACTACGCATGACTAATTTTTTAAATATTTGAGACGGGGTCTCCCTGTGTTACCCAGGCTGGTCTCAA
ACTCCTGGGCTCAAGTGATCCTCCCATCTTGGCCTCCAGAGTATTGGGATTACAGACATGAGCCACTGCACCTG
CCCAGCTCCCCAACTCCCTGCCATTTTTTAAAGAGACAGTTTCGCTCCATCGCCAGGCCTGGGATGCAGTGATGT

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FIGURE 4549B

GATCATAGCTCACTGTAACCTCAAACCTCTGGGGCTCAAGCAGTTCTCCCACCAGCCTCCTTTTTATTTTTTTTGTA
CAGATGGGGTCTTGCTATGTTGCCCAAGCTGGTCTTAACTCCTGGCCTCAAGCAATCCTTCTGCCTTGGCCCC
CAAAGTGCTGGGATTGTGGGCATGAGCTGCTGTGCCCAGCCTCCATGTTTAAATATCAACTCTCACTCCTGAATT
CAGTTGCTTTGCCCAAGATAGGAGTTCTCTGATGCAGAAATTATTGGGCTCTTTTAGGGTAAGAAGTTTGTGTCT
TTGTCTGGCCACATCTTGACTAGGTATTGTCTACTCTGAAGACCTTTAATGGCTTCCCTCTTTCATCTCCTGAGT
ATGTAACTTGCAATGGGCAGCTATCCAGTGACTTGTTCTGAGTAAGTGTGTTTCATTAATGTTTATTTAGCTCTGA
AGCAAGAGTGATATACTCCAGGACTTAGAATAGTGCCTAAAGTGCTGCAGCCAAAGACAGAGCGGAAGTATGAAA
AGTGGGCTTGGAGATGGCAGGAGAGCTTGTCATTGAGCCTGGCAATTTAGCAAACCTGATGCTGAGGATGATTGAG
GTGGGTCTACCTCATCTCTGAAAATTCTGGAAGGAATGGAGGAGTCTCAACATGTGTTTCTGACACAAGATCCGT
GGTTTGTAICTCAAAGCCCAGAATCCCCAAGTGCTGCTTTTGATGATGTCTACAGAAAATGCTGGCTGAGCTGAA
CACATTTGCCCAATTCCAGGTGTGCACAGAAAACCGAGAATATTCAAAATTCCAAATTTTTCTTAGGAGCAAGA
AGAAAATGTGGCCCTAAAGGGGGTTAGTTGAGGGGTAGGGGGTAGTGAGGATCTTGATTGGATCTCTTTTTATT
TAAATGTGAATTTCAACTTTTGACAATCAAAGAAAAGACTTTTGTTGAAATAGCTTTACTGTTTCTCAAGTGTTT
TGGAGAAAAAATCAACCCTGCAATCAGTTTTTGGAAATTGTCTTGATTTTTCGGCAGTTCAAGCTATATCGAATA
TAGTTCTGTGTAGAGAATGTCAGTGTAGTTTTGAGTGTATACATGTGTGGGTGCTGATAATTGTGTATTTTCTTT
GGGGGTGGAAAAGGAAAACAATTCAAGCTGAGAAAAGTATTCTCAAAGATGCATTTTTATAAATTTTATTAAACA
ATTTTGTTAAACCATAAAAAAAAAAAAAA

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FIGURE 4550

MGPWSRSL SALLLLLVSSWLCQEPEPCHPGFDAESYTF TVPRHLE RGRVLGRVNFEDCTGRQRTAYFSLDTRF
KVGTDGVITV KRPLRFHNPQIHFLVYAWDSTYRK FSTKVT LNTVGHHRP PPHQASVSGIQAELLTFPNSSPGLR
RQKR DWVIPPISCPEN EKGPFPKNLVQIKSNKDKEGKV FYSITGQGADTPPVGVFIIERETGWLKVTEPLDRERI
ATYTLF SHAVSSNGNAVEDPMEILITVTDQNDNKPEFTQEVFKGSVMEGALPGTSVMEVTATDADDDVNTYNAAI
AYTILSQDPELPDKNMFTINRNTGVISVVTGLDRESFPTYTLVVQAADLQGEGLSTTATAVITVTDNDNPPIF
NPTTYKGQVPEN EANVVITTLKVTDADAPNTPAWEAVYTI LNDGQGQFVVTTNPNVNDGILKTAKGLDFEAKQQY
ILHVAVTNVVPFEVSLTTSTATVTVDVLDVNEAPIFVPPEKRVEVSEDFGVGQEITSYTAQEPDTFMEQKITYRI
WRDTANWLEINPDTGAISTRAELDREDFEHVKNSTYTAIIATDNGSPVATGTGTL LLLILSDVNDNAPIPEPRTI
FFCERNPKPQVINIIDADLPNTSPFTAELTHGASANWTIQYNDPTQESIILKPKMALEVGDYKINLKLMDNQNK
DQVTTL E VSVCDCEGAAGVCRKAQFVEAGLQIPAILGILGGILALLIL LLLLLLFLRRRAVVKEPLLPEDDTRD
NVYYYDEEGGGEEDQDFDLSQLHRGLDARPEVTRNDVAPTLMSVPRYLPRPANPDEIGNFIDENLKAADTDPTAP
PYDSLLVFDYEGSGSEAASLSSLNSSES D KDQDYDYLNEWGNRFKKLADMYGGGEDD

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FIGURE 4551

AGTGCTCGCGGCGGCGGCGACGGCGGCGGGAGGTTGCGTTGTGCCCCGTTGGCCGCGGCGGCGCGCTCGGCGG
CCGCCATTGCAGGGAATCCCTGTGCTGATCGTGGGGCATCATATCCTGTATGGGAAAATCATCCACCTGGAGAAA
CCTTTTGCAGTCCTTGTCAAACACACTCCTGGGGATCAGGACTGTGATGAGCTTGGCCGCGAGACTGGCACCCGG
TACCTGGTGACAGCACTCATCAAAGACAAGATCCTTTTCAAAACCCGCCCAAGCCCATTATCACCAGCGTCCCC
AAGAAAGTATGAAAGAACCTCGGATTTTCCCTAGAGAGCGGCCAACTCCTTGGAATCGTGCTCCGCTGCCACCTC
GAGGACGGCTCGACGGTTCCCTGGGACCACAGGGGGTCTGTCTGAACACAGGCCACCCACTGGGTGTGAACCT
CGGATCCCTTCCCTATGGCGGCGGGTCTCTTGGTGGAATCTGACCCCATTTCCAAGGAACCCATCTCCTTTTC
CAGCTTCATCAGGCTCATTGGCTTCAAATCCAGCACCTTTCCCGGCTGGTGCTCGTGACCCAAGTATGGCTTCTT
TTCCAAGAGGGATGAATCCCACTGGCACAGGTGCAGTTTCTTTCCCAAGGCCTGGTGCCCTCTTGGGGCCAGGCC
CAGGCCCAGGCCCCACCCCTAAACCCCTAGGACAGGGGCTCTGCCAGGCCCAGGGCCTCTGTCTAACCCCAAGTTAG
GGGGTCTCCCAGGACCAGGTCTATGTCCAACCCAAGGGCAGGTGGTCTCCTGGGAGCAGGTCTTGACCCAGAG
GTGGTGGTCCCATGGGCCCTGGATCTGGACCTAACCTGAGAGCCGGTGTCTGTTAACCTCTGGGAATGGTCCTC
CCAATCCTAGGCCAGTTGGCCTGGGCCCAGGACCAACCCCAATCTGAGATCAGGCTTTTTAGGGACAAACCCCTG
CCCCAGGTGAGGTGTGTTTCCAGGCCCAGGCCTTGGGCCCAACCCAAGACCAAGTGGCCTGGGCCCAGGCCCTA
ATCTAGATGCCAGAGCAGGTGGCCTCTTGGGCACAGGATCTGGTCTTAACCTTAAGAATGGCTGGACCTCAAGGCC
TCGATCTTGCCCCATTCTAAGAGCAGCAGGTCTTTTAGGAGCAAATTCAGCTTCTTTCTCACAGGCTTCTGGAA
ACATGGGCACAAGCCCATCTCCATGGCAAGAGTACCTGGCCCCATGGGCCCA^AACTCGGGTCTTAGCTCTCGGG
GAATTGGCCTTCCAGGGCCAAATCCATCTCCATGTCAAGGGCTCCTGGCCCCATAGGCCCTAATTCAGCTCATT
TCTCAAGGCCAGTTGGCCCCATGGGGGTAAATGCCAATCCCTTTCCCAAGGGGAGCAGGTTTCTGCTTTTCTC
AGTCTTCTGGCACATTGGCATCAAACCCAGCTACCTTCCAAAGGTCCGCTGGCCTCCAGGGCTCAAATCCAACCA
TTTTCCCAAGAGCCTCTGGGCCACTTGGCCCCAACCCAGCTAACTTCCCAAGGGCCACTGGCCTGCAGGGTCCAA
GTCCAACCTACCTTCCCAAGGTCTACTGGCCCATTAGGCCCTGGTCAAGTTACTTTCCCCAGGCCAGCTGCCGGGC
ATCTGGGCCCTTCTCCAGCTGGCCCTGTGGGTATCAACCCAGCTCCTTTCACAAGGCCAACTGGGACCCTGGGTC
TCAACCCAGCTTCCCTTCCAAAGGATGAATGGCCCTGCAGGCAAGAGTTTCGTCCCATTTCTTAGAGTGGGGAGCC
TCCCTGGGCACAAACCCAGCTGCTTTCCCAAGACCAGGGGGTCCAATGGCTGCAATGTACCCAAATGGAATGTTGC
CCCCTAAACACCATTTTCCCTCCAGGACCACCTTGGTTTCTAGGCACTGTGGTTCTTGGCAGGGGCTGTCTTAG
GTAAAAGGGTAGTTGTGGAGCTACAGTCTGAAGAACATAGCTTGGGCTCAAGTTCAAATGAGCCATCTTTTTCT
TTGCGTTTTTCTTGAATGTTCTTGTGGACTTTTCTCAGGGATACATTGGCCTGCAGGTCCAGTTTCAATGTAGTCC
CCTGCTCACCATTGGAGAATCAGCTCAGTCTCTAGAAACGTGGCGTTGGTGAACGGACCATGCTTCCGTAGC
TCTGACCTGGGCAGCTTGGACCTGGTCATCTCTACTGCCATACCTTTCCCTGGGGGCTTGAACACAGAACAGGG
AGATGGACAACCACTTCAAAGAAAGACCCACCGAATGCAGTTTCTGCTTGACTGACTGGGCCTGCAGCTCCCTTC
TCCTGGGACTTAGAGGTGGCCAGATTTAAGGCCCTCTACTCATCCAACCTCCCTCTTACTGGTACTCCCAATCA
ATCAAAGAACCTCAAATTTAAACTGATGTGGATGGGAATATGGGAATTAGGGTGGGGGTGGGGATGAAGGGAA
GAAATCAGTGTGCTTTGTTGCGCCTGGTGTGCAAGGATGGTTGGTGGTTTTCTGCATTGTATCTTTTCTTACTG
TTTCTTTAATAAATGGGATGAGAGGGC

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FIGURE 4552

MKEPRIFPRERPTPWTRAPLPPRGRLDGS LGPQGGPVLNTGHPLGVNSDFFLMAAGSLGGNLTPFPRNPSPFPAS
SGSLASNPAPFPAGARDPSMASFPRGMNPTGTGAVSFPRPGLLGPGPGPPTLNPRGTGALPGPGPLSNPRLGGL
PGPGPMSNPRAGGLLGAGPDPRGGGPMGPGSGPNLRAGVLLTSGNGPPNPRPVGLGPGPNPNLRSGLGTNPAPR
SGVFPGLGPNPRPSGLGPGPNLDARAGGLLTGSGNLNRMAGPQGLDLAPILRAAGLLGANSASFSSQASGNMG
TSPSSMARVPGPMGPNSGPSSRGIGLPGPNPSPMSRAPGPIGPNSAHFSRPVGPMPGVNANPFPRGAGSSAFSSQSS
GTLASNPATFQRSAGLQGSNPTIFPRASGPLGPNPANFPRATGLQGPSPTTFPRSTGPLGPGQVTFPRPAAGHLG
PSPAGPVGINPAPFTRPTGTLGLNPASFPRMNGPAGKSFVPFPRVGSIPGTNPAAFFPRPGGPMAMPNGMLPP

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FIGURE 4553

CTCAGTTAGCGGTGGAGAGGCAGTATGTCCGGTTCA**ATG**GCGACTGCGGAAGCTAGCGGCAGCGATGGGAAAGGG
CAGGAAGTCGAGACCTCAGTCACCTATTACCGTTGGAGGAGGTGGCAAAGCGCAACTCCTTGAAGGAACTGTGG
CTTGTGATCCATGGGCGAGTCTACGATGTCACCCGCTTCCTCAACGAGCACCCCTGGAGGAGAAGAGGTTCTGCTG
GAACAAGCTGGTGTAGATGCAAGTGAAAGCTTTGAAGATGTAGGACACTCTTCTGATGCCAGAGAAATGCTAAAG
CAGTACTACATTGGTGATATCCATCCGAGTGACCTTAAACCTGAAAGTGGTAGCAAGGACCCCTTCAAAAAATGAT
ACATGCAAAAGTTGCTGGGCATATTGGATTTTACCCATCATAGGCGCTGTTCTCTTAGGTTTCCTGTACCGCTAC
TACACATCGGAAAGCAAATCCTCCT**CGAGG**AGGCCTTGCTGAAGTTAGAAAGTGCATCCACTTTGGGGCGAAAAC
AGAGACTTGCTTGGGGGCTGCAGAAGTGCCCTCTCCTCGAATCCTGCCAGTTGCATTCTTCCCCCTTGGAGCCAA
GACGATTGGCCAGACATCACCTCAGATCTGAGACCAGCGTCTTCCATCTCTCAGAGCCTTACTCCCAAAGTACCT
GCTCACTGTTCCGTGTTGAACAATTGCCGGTGTTCCTCTCTTCACTGGTTTCCATGAGTACCCTTATATTTTAC
AACTTTCTGTTTATAAGTTATAGTGACATTGCTCTTTGGTAAAAATGCCTGCTTTCCAATACTTTGATTGCATAT
TAGACATTCTTAACAGGGCGGCAGTCTAGTGTTGAAAGTTTTATTTTTCCATTTTCTTTTAAAGTAAATTTTTT
TAAAAAATTCTGATTTAGGGCTAGGTGTGGTGGCTCAGGCCTGTAATCCTGGCACTTTGGGAGGCCAAGGTGGGA
ACATCGCTTGAGGCCAAGAGTTCAAGACCAGCCTGGGCAACATAGCGAGACCCCTATCTGTATTAAAAAAAATC
TGATTTAATTCTTTTATTTATCATAAGGGGTTTAATTCCTGAAGTAAAGGTTTGACCTATTAAACTTAAACTG
CCAAATGATTTTTGTTCTTTTATGTGCGTGATAAAAATACAAAGAATGGTGTGGCCACCTCCTCCCTTTCAAGCT
AGGGCAGCAGGTAGCTCTTCCCAGCCCCTGAGCCAGCCCCTTCCCAAGTGGTGCCGGACAAAAAACTACATGGC
CCTTTTCGTGCTTGGGGGTGGAAGGGAGGGATGAATTGGGGTGATAGAACCCTGGTGAATTCAGAGTAATCTTT
CTTTAGAAAACCTGGTGTCTTCTAAAGAAACAGGATAGGAGTTTAGAGAAGGCACCAAAGCTTTCACTTTGGTTT
GCACCAAGTTTCTAACCATCTGTTTTTCTACCCTAGCTATCTTTTATTGGTAAAAATATAAATGTATAATTATGTT
TGTAGAGCTTTACCAAGGAGTTTCCCTCCTTTTTTTGTTTGTGATTAGCAAATTTTTGATTCTCCATTTTCCAA
AAGTAAGAGACTCCAGCATGGCCTTCTGTTTGGCCCGCAGTAAAGTAACTTCCATATAAAATGGTATTTGAAAGT
GAGAGTTTATGACAACAGACCGTTTCCATTTCATCTGTATTTTATCTCCGTGACTCCAACCTGTGGGTTTGTTC
TGTTTTTCCATGAGAATAAAATACTGGCGGTTTTTTTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 4554

MATAEASGSDGKGQEVETSVTYRLEEVAKRNSLKEWLVIHGRVYDVTRFLNEHPGGEEVLLEQAGVDASESFE
DVGHSSDAREMLKQYYIGDIHPSDLKPESGSKDPSKNDTCKSCWAYWILPIIGAVLLGFLYRYTSESKSS

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FIGURE 4555

CACACACCCCTACAATCCCCTCCCCAGCCCCGAGAGACTTTTCTTGACTTCCACCAGTTGCTCCGGCGGGTGAG
AGTGGAGAGGCCCCCTCCTTCATCCCCCAGGCTCCCTCCCTTCCTGGAGCTGCAGCCTCAGCATCCTCCGCCCAGC
ACCCCAGGATTTCAGGCGTTGGGTCCCGCCCTTGTAGGCTGTCCACCTCAAACGGGCCGGACAGGATATATAAGAG
AGAATGCACCGTGCACTACACACGCGACTCCCACAAGGTTGCAGCCGGAGCCGCCAGCTCACCGAGAGCCTAGT
TCCGGCCAGGGTCGCCCCGGCAACCACGAGCCCAGCCAATCAGCGCCCCGGACTGCACCAGAGCCATGGTCGGCA
GAAGAGCACTGATCGTACTGGCTCACTCAGAGAGGACGTCCTTCAACTATGCCATGAAGGAGGCTGCTGCAGCGG
CTTTGAAGAAGAAAGGATGGGAGGTGGTGGAGTCGGACCTCTATGCCATGAACCTCAATCCCATCATTTCAGAA
AGGACATCACAGGTAAACTGAAGGACCCTGCGAACTTTCAGTATCCTGCCGAGTCTGTTCTGGCTTATAAAGAAG
GCCATCTGAGCCCAGATATTGTGGCTGAACAAAAGAAGCTGGAAGCCGCAGACCTTGTGATATTCCAGAGTAAGA
AGGCAGTGCTTTCCATCACCCTGGTGGCAGTGGCTCCATGTACTCTCTGCAAGGGATCCACGGGGACATGAATG
TCATTCTCTGGCCAAATTCAGAGTGGCATTCTGCATTCTGTGGCTTCCAAGTCTTAGAACCTCAACTGACATATA
GCATTGGGCACACTCCAGCAGACGCCCCGAATTCAAATCCTGGAAGGATGGAAGAAACGCCTGGAGAATATTTGGG
ATGAGACACCACTGTATTTTGCTCCAAGCAGCCTCTTTGACCTAAACTTCCAGGCAGGATTCTTAATGAAAAAAG
AGGTACAGGATGAGGAGAAAAACAAGAAATTTGGCCTTTCTGTGGGCCATCACTTGGGCAAGTCCATCCCAACTG
ACAACCAGATCAAAGCTAGAAAATGAGATTCCTTAGCCTGGATTTCTTCTAACATGTTATCAAATCTGGGTATC
TTTCCAGGCTTCCCTGACTTGCTTTAGTTTTTAAGATTTGTGTTTTTCTTTTTCCACAAGGAATAAATGAGAGGG
AATCGACTGTATTCGTGCATTTTTGGATCATTTTTTAAGTATTCTTATGATTACTATCATGGCATATAACCAAAA
TCCGACTGGGCTCAAGAGGCCACTTAGGGAAAGATGTAGAAAGATGCTAGAAAAATGTTCTTTAAAGGCATCTAC
ACAATTTAATTCCTCTTTTTAGGGCTAAAAGTTTTAGGGTACAGTTTGGCTAGGTATCATTCAACTCTCCAATGTT
CTATTAATCACCTCTCTGTAGTTTATGGCAGAAGGGAATTGCTCAGAGAAGGAAAAGACTGAATCTACCTGCCCT
AAGGGACTTAACTTGTTGGTAGTTAGCCATCTAATGCTTGTTTATGATATTTCTTGCTTTCAATTACAAAGCAG
TTACTAATATGCCTAGCACAAGTACCACTCTTGGTGAGCTTTTGTTGTTTATATACAGTACACAGATACCTTGAA
AGGAAGAGCTAATAAATCTCTTCTTTGCTGCAGTCATCTACTTTTTTTTTTAATTAAAAAAATTTTTTTTTGAAG
CAGTCTTGCTCTGTTACCCAGGCTGGAGTGCAGTGGTGTGATCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTT
CAGCAATTCTCCTGCCTCAGCCTCCCTAGTAGCTGGGATGACAGGCGCCTGCCATCATGCCTGACTAATTTTTGT
ATTTTTAGTAGAGACGGCGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCTGCCTGC
CTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGA

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FIGURE 4556

CTCTCAGCAGCCAAACATGGCTCCAGTGGAGCACGTTGTGGCGGATGCTGGGGCTTTCCTGCGGCATGCGGCTCT
GCAGGACATCGGGAAGAACATTTACACCATCCGGGAGGTGGTCACTGAGATTCGGGACAAGGCCACACGCAGGCG
GCTCGCTGTCTGCCCTACGAGCTGCGGTTCAAGGAGCCCTTACCGGAATACGTGCGGCTGGTGACTGAGTTTTTC
AAAGAAAACAGGAGACTACCCCAGCCTCTCTGCCACGGACATCCAAGTGCTTGCACTCACATAACAGTTGGAAGC
AGAGTTTGTGGGGTGTCTCACCTAAAACAAGAACCACAGAAGGTTAAGGTGAGCTCATCGATTACAGCACCCAGA
AACACCTCTGCACATTTCTGGTTTCCATCTGCCCTACAAGCCTAAACCCCCACAAGAAACAGAAAAAGGACACTC
AGCTTGTGAGCCTGAGAACCCTGGAATTTAGTTCTTCATGTTCTGGAGAAACCCTTTGCCCAACATCGATCATGA
ACTGCAGGAGCTGCTGATTGACAGAGGTGAGGACGTTCCAAGTGAGGAGGAGGAGGAGGAAGAAAACGGGTTTGA
AGACAGAAAAGATGACAGCGATGACGACGGGGGTGGCTGGATAACCCCCAGTAACATCAAGCAGATCCAGCAGGA
GCTGGAGCAGTGTGACGTCCCCGAGGACGTGCGGGTTGGCTGCCTGACCACAGACTTCGCCATGCAGAATGTTCT
GCTGCAGATGGGGCTGCACGTGCTGGCGGTGAACGGCATGCTGATTCTGTGAGGCCCGGAGCTACATCTTGCGCTG
CCATGGCTGTTTCAAGACAACGTCTGACATGAGCCGAGTGTCTGCTCACACTGTGGGAACAAGACCCTGAAGAA
AGTGTCCGTGACCGTCAGCGACGACGGCACCCCTGCACATGCACCTTCTCCGCAACCCCCAAGGTGCTGAACCCCCG
CGGCCTCCGGTACTCGCTTCCCACTCCCAAAGGGGGCAAATACGCCATCAACCCCCATCTCACCGAGGATCAGCG
CTTCCCTCAGCTGCGACTCTCCCAAAGGCCAGGCAGAAAACCAACGTGTTTCGCCCCCTGACTACATCGCCGGGGT
GTCACCCTTTGTGAGAATGACATCTCCAGCCGCTCAGCTACCCTGCAGGTCCGGGACAGCACCTTGGGAGCTGG
GCGGAGACGCTTAAATCCCAACGCTTCCAGAAAGAAGTTTGTGAAGAAAAGGTGAAGAGCGAGTTCCCGCAGGCA
AATTGGATGGGCGTCTGGCCGCCGTGGAGTTCCGGTGACCCATTTCCCCAGCCGTGTCGTCTCCAGGACCACCCG
ATGAAATAACAGGCGGGCTTCACGGTGCGGCTCTGTCCGCCATGCCCGCTGGGTCTGCAGGGAACCTGGACTG
TCCCATGGCCTGTGAGCACCGGAGCGCCTGGCTGCCTGCCAAGGAAGTGCAATTGCATAAAAACAGAAAGAACAA
CGCCCTGGAGCCAATCTTCAAGAAAGGAATTTCCAAAGGATAATATTTTTCTAATAAATGCGGCTGCAACCTCCT
GTGCATTTAATTAAATAGGCCAAATTTTTGCTGCTTAGGTTCATCTCAAGGCTGATACTTGAGCTGTGTGCCCAGA
GATCATGCATTTAGATTTATATTTTTTGCCAGAAAATACAAGGTTATAATAAACTAAGAACTACCAAAAAAAAAA
AAAAAAA

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FIGURE 4557

MAPVEHVADAGAF LRHAALQDIGKNIYTIREVVTEIRDKATRRRLAVLPYELRFKEPLPEYVRLVTEFSKKTGD
YPSLSATDIQVLALTYQLEAEFVGVS HLKQEPQKVVS SSIQHPETPLHISGFHLPYKPKPPQETEKGHSACEPE
NLEFSSFMFWRNPLPNIDHELQELLIDRGEDVPSEEEEEENG FEDRKDDSDDDGGGWITPSNIKQIQE LEQCD
VPEDVRVGCLTTDFAMQNVLLQMGLHVLAVNGMLIREARSYILRCHGCFKTTSDMSRVFCSHCGNKTLKKVSVTV
SDDGTLHMHFSRNPKVLNPRGLRYS LPTPKGGKYAINPHLTEDQRFPQLRLSQKARQKTNVFAPDYIAGVSPFVE
NDISSRSATLQVRDSTLGAGRRRLNPNASRKKFVKKR

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FIGURE 4558

CTTTTCTCGGGACGGGAGAGGCCGTGTAGCGTCGCCGTTACTCCGAGGAGAGACCAGTCGGTAGAGGAGAAGTCC
AGGTTAGAGGGAAGTGGGAGGCACTTTGCTGTCTTCAATCGAAGTTGAGGGTGCAAAAATGCAGAGTAATAAAAC
TTTTAACTTGGAGAAGCAAAACCATACTCCAAGAAAGCATCATCAACATCACCACCAGCAGCAACAGCTGCAGCC
GCCACCACCGCCAATACCTGCAAATGGGCAACAGGCCAGCAGCCAAAATGAAGGCTTTGACTATTTGGCCTGAAG
AATTTTAGAAAACCAGGAGAGAAGACCTTCACCCAACGAAGCCGTCTTTTGTGGGAAATCTTCCTCCCGACATC
ACTGAGGAAGAAATGAGGAACTATTTGAGAAATATGGAAAGGCAGGCGAAGTCTTCATTTCATAAGGATTAAGGA
TTTGGCTTTATCCGCTTGGAAACACGAACCCTAGCGGAGATTGCGAAAGTGGAGCTGGACAATATGCCACTCTGT
GGAAAGCAGCTGCGTGTGCGCTTTTCTGCCATAGTGCATCCCTTACAGTTCGAAACCTTCCTCAGTATGTGTCC
AACGAAGTGCTGGAAGAAGCCTTTTCTGTGTTTGGCCAGGTAGAGAGGGCTGTAGTCATTGTGGATGATCGAGGA
AGGCCCTCAGGAAAAGGCATTGTTGAGTTCTCAGGGAAGCCAGCTGCTGGGAAAGCTCTGGACAGACGCAGTGAA
GGCTCCTTCCTGCTAACCACATTTCTCGTCCTGTGACTATGGAGCCCATGGACCAGTTAGATGATGAAGGGGA
CTTCAGAGAAGCTGGTTATAAAAAACCAGCAATTTACAAAGGAACGAGAGCAACCACCCAGATTTGCACAGCCT
GGCTCCTTTGAGTATGAATATGCCATGCGCTGGAAGGCACCTCATTGAGATGGAGAAGCAGCAGCAGGACCAAGTG
GACCGCAACATCAAGAGGCTCGTGAGAAGCCAGAGATGGAGATGGAGGCTGCACGCCATAAGCACCAGGTTCATG
CTAATGAGACAGAATTTGATGAGGCGCAAGAAGAACTTCGGAGGATGGAAGAGCTGCACAACCAAGAGGTGCAA
AAACGAAAGCAACTGGAGCTCAGGCAGGAGGAAGAGCGCAGGCGCCCTGAAGAAGAGATGCGGCGGCAGCAAGAA
GAAATGATGCAGCCACAGCAGGAAGGATTCAAGGGAACCTTCCTGATGTGAGAGAGCAGGAGATTTGGATGGGT
CAGATGGCTATGGGAGGTGCTATGGGCATAAACAGCAGAGGTGCCTTGACCCCTGCTCCTGTGCCAGCTGGTACC
CCAGCTCCTCCAGGACCTGCCACTATGATGCCGGATGGAACCTTTGGGATTGACCCACCAACAACCTGAACGCTTT
GGTCAGGCTGCTACAATGGAAGGAATTGGGGCAATTGGTGAACTCCTCCTGCATTCAACCATGCAGCTCCTGGA
GCTGAATTTGCTCCAAACAAACGTCGCCGATACTAATAAGTTGCAGTGTCTAGTTTCTCAAACCCCTTAAAGAA
GGACCCTTTTGGACCAGCCAGAATTCTACCCTGGAAAAGTGTTAGGGATTCTTCCAATAGTTAGATCTACCCCT
GCCTGTACTACTCTAGGGAGTATGCTGGAGGCAGAGGACAAGGGAGGGGTGGTATTAAACAAGTCAATTCTATGT
AGTATATTATTTAATCAGTTCTGTGTGGTGCATTCCTGAAGTCTCAAATGTGATTGTTGAGGGCCTGGGGAAACC
ATGGCAAAGTAGATCCAGTTAGAGCCCATTAATCTTGATCATTCTGTTTTTTTTGGTTTGTGTTGTTTTTTTTT
TTTTTTTTTTTTGTCCATCTTGTTCATTTGCTTGCCCTGCCCCGAGATGGAGTCTTACTCTGTGCCCCAGGCT
GGAGTGTAGTGGCACGATCTCGGCTCACTGCAATCTCTGCCTCTCGGGTTCAAGCTTGTCCAGGCTGATCTTGAA
CTCCTGACCTCGTGATCCCCTGCCTCAGCCTCCCAAAATGCTGGGATTACAGGGGTGAGCCACCGTGCCCAACCT
CACTTGCTTTCTTATCCTTACACTCCCCCAGTCCCAGAGAACTGCCACATACACCACAAAAACCAACATCCCC
CAATGACCTTAGCCGCATTGCTCCATTCACTCCCAGGTGAGAATTCAGGTAAACGTCCACAAAGGTCACAGGCAA
CGTACATACGGTTCTATTATATCCCATATATTACCCCTTCATGTCCTAAAGAAGACATTTTCTCTTAGAGATTTT
CATTTTAGTATATCTTTAAAAAAAATCTTGTGTTAACTTGCCCTCCATCTTTTTCTTGGGTGAGGACACCCAGGA
ATGACCCTTTTGTGTCTATGATACTGCTGTTACAGCTTTTCTTGATAGGCCTAGTACAATCTTGGGAACAGGGT
TACTGTATACTGAAGGTCTGACAGTAGCTCTTAGACTCGCCTATCTTAGGTAGTCATGCTGTGCCCTTTTTTTTCC
ATTGGTGTATTGATTTGATTTGTCTCTGATATATTTGGAGTTTTTCTGAGAACTGGAGCAGTAATGCAGCATCG
ACCTATTAAATACATTTTAAGCCTTT

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FIGURE 4559

MPLCGKQLRVRFSCHSASLTVRNLPQYVSNEVLEEAFSVFGQVERAVVIVDDRGRPSGKGIVEFSGKPAAGKALD
RRSEGSFLLTTFFRPVTIMEPMDQLDDEGGLPEKLVKNQQFHKEREQPPRFAQPGSFYEYAMRWKALIEMEKQQ
QDQVDRNIKEAREKPEMEMEAAARHKKHVMLMRQNLRRQEELRRMEELHNQEVQKRKQLELRQEEERRRPEEEMR
RQQEEMMQPQQEGFKGTFPDVREQEIWMGQMAMGGAMGINSRGALTPAPVPAGTPAPPGPATMPDGTGLGLTPPT
TERFGQAATMEGIGAIGETPPAFNHAAPGAEFAPNKRRRY

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FIGURE 4560

GCAGTGAAGGCTCCTTCCTGCTAACCACATTTCTCGTCCTGTGACTATGGAGCCCATGGACCAGTTAGATGATG
AAGGGGGACTTCCAGAGAAGCTGGTTATAAAAAACCAGCAATTCACAAGGAACGAGAGCAACCACCCAGATTTG
CACAGCCTGGCTCCTTTGAGTATGAATATGCCATGCGCTGGAAGGCACTCATTGAGATGGAGAAGCAGCAGCAGG
ACCAAGTGGACCGCAACATCAAAGAGGCTCGTGAGAAGCCAGAGATGGAGATGGAGGCTGCACGCCATAAGCACC
AGGTCATGCTAATGAGACAGAATTTGATGAGGCGCCAAGAAGAAGCTTCGGAGGATGGAAGAGCTGCACAACCAAG
AGGTGCAAAAACGAAAGCAATCTCTGCCTCTCGGGTTCAAGCTTGTCCAGGCTGATCTTGAACTCCTGACCTCGT
GATCCCCTGCCTCAGCCTCCCAAAATGCTGGGATTACAGGGGTGAGCCACCGTGCCCAACCTCACTTGCTTTCTT
ATCCTTACACTCCCCCAGTCCCAGAGAACTGCCACATACACCACAAAAACCAACATCCCCCAATGACCTTAGC
CGCATTGCTCCATTCACTCCCAGGTGAGAATTCAGGTAAACGTCCACAAAGGTCACAGGCAACGTACATACGGTT
CTATTATATCCCATATATTACCCCTTCAIGTCCTA

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FIGURE 4561

CTTTTCTCGGGACGGGAGAGGCCGTGTAGCGTCGCCGTTACTCCGAGGAGAGACCAGTCGGTAGAGGAAGAGCGC
AGGCGCCCTGAAGAAGAGATGCGGCGGCAGCAAGAAGAAATGATGCAGCCACAGCAGGAAGGATTCAAGGGAACC
TTCCCTGATGTGAGAGAGCAGGAGATTGGATGGGTCAGATGGCTATGGGAGGTGCTATGGGCATAAACAGCAGA
GGTGCCTTGACCCCTGCTCCTGTGCCAGCTGGTACCCCAGCTCCTCCAGGACCTGCCACTATGATGCCGGATGGA
ACTTTGGGATTGACCCACCAACAACCTGAACGCTTTGGTCAGGCTGCTACAATGGAAGGAATTGGGGCAATTGGT
GAAACTCCTCCTGCATTCAACCATGCAGCTCCTGGAGCTGAATTTGCTCCAAACAAACGTCGCCGATACTAATAA
GTTGCAGTGTCTAGTTTCTCAAAACCCTTAAAAGAAGGACCCTTTTTGGACCAGCCAGAATTCTACCCTGGAAAA
GTGTTAGGGATTCTTCCAATAGTTAGATCTACCCTGCCTGTACTACTCTAGGGAGTATGCTGGAGGCAGAGGAC
AAGGGAGGGGTGGTATTAAACAAGTCAATTCTATGTAGTA

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FIGURE 4562

AGTGGTGTCCGCAAAGCCCAAGGTGCATAATCGTCAACCTCGAATTAACCTCTACGTGGAGGTGGCGGTGGATGG
ACTCCCCAGTGAGACCAAGAAGACTGGGAAGCGCATTGGGAGCTCTGAGCTTCTCTGGAATGAGATCATCATTTT
GAATGTCACGGCACAGAGTCATTTAGATTTAAAGGTCTGGAGCTGCCATACCTTGAGAAATGAAGTGTAGGCAC
CGCATCTGTCAACCTCTCCAACGTCTTGAAGAACAAATGGGGGCAAAATGGAGAACATGCAGCTGACCCTGAACCT
GCAGACGGAGAACAAGGCAGCGTTGTCTCAGGCGGAGAGCTGACAATTTTCTTGAGAGACTCCAGTGGAACAGCAGT
GGGAAATGTGCCTAATGGCAGTGCCCTGACAGATGGATCACAGCTGCCTTCGAGAGACTCCAGTGGAACAGCAGT
AGCTCCAGAGAACCGGCACCAGCCCCCAGCACAACTGCTTTGGTGGGAAGATCCCGGACGCACAGACATTCGGG
TGCTTCAGCCAGAACAACCCAGCAACCGGCGAGCAAAGCCCCGGTGTCTCGGAGCCGGCACCGCCAGCCCGTCAA
GAACTCAGGCCACAGTGCGTTGGCCAATGGCACAGTGAATGATGAACCCACAACAGCCACTGATCCCGAAGAACC
TTCCGTTGTTGGTGTGACGTCCCCACCTGCTGCACCCTTGAGTGTGACCCGAATCCCAACAGACTTCTCTCCC
TGCCCCAGCCACACCGGCTGAAGGAGAGGAACCCAGCACTTCGGGTACACAGCAGCTCCCAGCGGTGCCAGGC
CCCCGACGCTCTGCCTGCTGGATGGGAACAGCGAGAGCTGCCCAACGGACGTGTCTATTATGTTGACCACAATAC
CAAGACCACCACCTGGGAGCGGCCCTTCTCCAGGCTGGGAAAACGCACAGATCCCCGAGGCAGGTTTTACTA
TGTGGATCACAATACTCGGACCACCACCTGGCAGCGTCCGACCGCGGAGTACGTGCGCAACTATGAGCAGTGGCA
GTGCGACGGGAATCAGCTCCAGGGGGCCATGCAGCACTTCAGCCAAAGATTCTCTACCAGTCTTCGAGTGTCTC
GACTGACCATGATCCCCCTGGGCCCCCTCCCTCCTGGCTGGGAGAAGAGACAGGACAATGGACGGGTGTATTACGT
GAACCATAACACTCGCACGACCCAGTGGGAGGATCCCGGACCCAGGGGATGATCCAGGAACCAGCTCTGCCCCC
AGGATGGGAGATGAAATACACCAGCGAGGGGGTTCGATACTTTGTGGACCACAATACCCGACCACCACCTTTAA
GGATCCTCGCCCGGGGTTTGAGTCGGGGACGAAGCAAGTTCCCTGCTGCTTATGACCGCAGTTTTTCGGTGGAA
GTATCACCAGTTCCGTTTCTCTGCCATTCAAATGCCCTACCTAGCCACGTGAAGATCAGCGTTTTCCAGGCAGAC
GCTTTTCAAGATTCTTCCAACAGATCATGAACATGAAACCCTATGACCTGCGCGCCGGCTCTACATCATCAT
GCGTGGCGAGGAGGGCCTGGACTATGGGGGCATCGCCAGAGAGTGGTTTTTCTCTGTCTCATGAGGTGCTCAA
CCCTATGTATTGTTTATTTGAATATGCCGAAAGAACAATTACTGCCTGCAGATCAACCCCGCTCCTCCATCAA
CCCGGACCACCTCACCTACTTTTCGCTTTATAGGCAGATTTCATCGCCATGGCGCTGTACCATGGAAGTTTCATCGA
CACGGGCTTCACCCTCCCTTTCTACAAGCGGATGCTCAATAAGAGACCAACCCTGAAAGACCTGGAGTCCATTGA
CCCTGAGTTCTACAACCTCCATTGTCTGGATCAAAGAGAACAACCTGGAAGAATGTGGCCTGGAGCTGTACTTCAT
CCAGGACATGGAGATACTGGGCAAGGTGACGACCCACGAGCTGAAGGAGGGCGGCGAGAGCATCCGGGTACAGA
GGAGAACAAGGAAGAGTACATCATGCTGCTGACTGACTGGCGTTTCACCCGAGGCGTGGGAAGAGCAGACCAAAGC
CTTCTGATGGCTTCAACGAGGTGGCCCCGCTGGAGTGGCTGCGCTACTTTGACGAGAAAGAGCTGGAGCTGAT
GCTGTGCGGCATGCAGGAGATAGACATGAGCGACTGGCAGAAGAGCACCATCTACCGGCACTACACCAAGAACAG
CAAGCAGATCCAGTGGTTCTGGCAGGTGGTGAAGGAGATGGACAACGAGAAGAGGATCCGGCTGCTGCAGTTTGT
CACCGGTACCTGCCGCTGCCGCTCGGGGATTTGCCGAACCTCATCGGTAGCAACGGACCACAGAAGTTTTGCAT
TGACAAAGTTGGCAAGGAAACCTGGCTGCCAGAAGCCACACCTGCTTCAACCGTCTGGATCTTCCACCCTACAA
GAGCTACGAACAGCTGAGAGAGAAGCTGCTGTATGCCATTGAGGAGACCGAGGGCTTTGGACAGGAGTAACCGAG
GCCGCCCCCTCCACGCCCCCAGCGCACATGTAGTCCTGAGTCTCCTGCCCTGAGAGGCCACTGGCCCCGCAGC
CCTTGGGAGGCCCCGTGGATGTGGCCCTGTGTGGGACCACACTGTCTCATCTGCTGCTGGCAGAAAAGCCTGATC
CCAGGAGGCCCTGCAGTTCCCCCGACCCGCGGATGGCAGTCTGGAATAAAGCCCCCTAGTTGCCCTTTGGCCCCAC
CTTTGCAAAGTTCCAGAGGGCTGACCCTCTCTGCAAACTCTCCCCTGTCTCTAGACCCACCCCTGGGTGTATG
TGAGTGTGCAAGGGAAGGTGTTGCATCCCCAGGGGCTGCCGAGAGGCCGAGACCTCCTGGACTAGTTCCGGCGA
GGAGACTGGCCACTGGGGGTGGCTGTTTCGGGACTGAGAGCGCCAAGGGTCTTTGCCAGCAAAGGAGGTCTGCCT
GTAATTGAGCCTCTCTGATGATGAGATGAAGTGAAGTCTGAGGGAGCGGGCCCTGGGGCGAGGCCATCTCTGC
CTGCCTCCCTAGCAGGCGCCAGCGGTGGAGGTGAGTCGAGGACACATGCCGGCCAGTTAATTCATTCTCAGCC
AATGAAGGTTTGTCTAAGCTGCCTGGGTATCCACGGGACAAAACAGCAAACCTCCCTCAGACTTTGTCCATGTAT
AAACTTGAAGTGGTTGTGTTGTAGGGTGCAGGTTTTTTGTTACGCTGCTGTCACTTTCTGTC

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FIGURE 4563

MASASSSRAGVALPFEEKSQLTLKVVSAPKPKVHNROPRINSYVEVAVDGLPSETKKTGKRIGSSELLWNEIIILNV
TAQSHLDLKVWSCHTLRNELLGTASVNLSNVLKNNGGKMENMQTLNLQ TENKGSVVSGGELTIFLDGPTVDLGN
VPNGSALTDGSQLPSRDSSGTAVAPENRHQPPSTNCFGGRSRTHRHSGASARTTPATGEQSPGARSRRHQPVKNS
GHSGLANGTVNDEPTTATDPEEPSVVGVTSPPAAPLSVTPNPNTTSLPAPATPAEGEEPSTSGTQQLPAAAQAPD
ALPAGWEQRELPNGRVYYVDHNTKTTTWERPLPPGWEKRTDPRGRFYVDHNTRTTTWQRPTAEYVRNYEQWQSQ
RNQLQGAMQHFSQRFYLYQSSSASTDHDPLGPLPPGWEKQDNGRVYYVNHNTTQWEDPRTQGMIEPALPPGW
EMKYTSEGVRIFYVDHNTRTTTFKDPRPGFESGTKQGSFGAYDRSFRWKYHQFRFLCHSNALPSHVKISVSRQTLF
EDSFQQIMNMKPYDLRRRLYYIIMRGEEGLDYGGIAREWFFLLSHEVLNPMYCLFEYAGKNNYCLQINPASSINPD
HLTYFRFIGRFIAMALYHGKFIDTGFTLPFYKRMLNKRPTLKDLESIDPEFYNSIVWIKENNLEECGLELYFIQD
MEILGKVTTHLKEGGESIRVTEENKEEYIMLLTDWRFTRGVEEQTKAFLDGFNEVAPLEWLRYFDEKELELMLC
GMQEIDMSDWQKSTIYRHYTKNSKQIQFWQVVKEMDNEKRIRLLQFVTGTCRLPVGGFAELIGSNGPQKFCIDK
VGKETWLP RSHTCFNRDLPPYKSYEQLREKLLYAIEETEGFGQE

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FIGURE 4564

GGTACAGCTGCGCGTCTGCGGGAATAGGTGCAGCGGGCCCTTGGCGGGGACTCTGAGGGAGGAGCTGGGGACGG
CGACCCTAGGAGAGTTCTTTGGGGTGACTTTCAAGATGACTCTACTCTAACAGCAAGTGAAATCCGGCAGCGAT
TTATAGATTCTTCAAGAGGAACGAGCATAACGTATGTTCACTCGTCTGCCACCATCCCATTGGATGACCCCACTT
TGCTCTTTGCCAATGCAGGCATGAACCAAGTTTAAACCCATTTTCTGAAACAAATTGACCCATCTCACCCCATGG
CAAAGCTGAGCAGAGCTGCCAATACCCAGAAGTGATCCGGGTGGGGGCAAACAAAATGACCTGGACGATGTGG
GCAAGGATGTCTATCATCACACCTTCTTCGAGATGCTGGGCTCTTGGTCTTTTGGAGATTACTTTAAGGAATTGG
CATGTAAGATGGCTCTGGAACCTCTACCCAAGAGTTTGGCATTCCCATTGAAAGACTTTATGTTACTTACTTTG
GCGGGGATGAAGCAGCTGGCTTAGAAGCAGATCTGGAATGCAAACAGATCTGGCAAATTTGGGGCTGGATGACA
CCAAAATCCTCCCAGGCAACATGAAGGATAACTTCTGGGAGATGGGTGACACGGGGCCCTTGIGGTCCTTGCAGTG
AGATCCACTACGACCGGATTGGTGGTGGGACGCGCACATCTTGTCACCAGGACGACCCCTAATGTGCTGGAGA
TCTGGAACCTTGTTTATCCAGTATAACAGGGAAGCTGATGGCATTCTGAAACCTCTTCCCAAGAAAAGCATTG
ACACAGGGATGGGCTTGAACGACTGGTATCTGTGCTGCAGAATAAGATGTCCAACCTATGACACTGACCTTTTGG
TCCCTTACTTTGAAGCCATTGAGAAGGGCACAGGTGCCCCGACCATACTGGGAAAGTTGGTGTGAGGATGCCG
ATGGGATTGACATGGCCTACCGGGTGCTGGCTGACCATGCTCGGACCATCACTGTGGCACTGGCTGATGGTGGCC
GGCCTGACAACACAGGGCGTGGATATGTGTTGAGACGGATTCTCCGCCGAGCTGTCCGATACGCCCATGAAAAGC
TCAATGCCAGCAGGGGCTTCTTTGCTACGTTAGTGGATGTTGTGCTCCAGTCCCTGGGAGATGCATTTCTGAGC
TGAAGAAGGACCCAGACATGGTGAAGGACATCATTAAAGAAAGAGGTGCAGTTTCTCAAGACTCTCAGCAGAG
GGCTCGCATCCTGGACAGGAAAATTGAGAGCTGGGAGACAGCAAGACCATTCCCGGAGACACTGCTTGGCTCC
TCTATGACACCTATGGGTTTCCAGTGGATCTGACTGGACTGATTGCTGAAGAGAAGGGCCTGGTGGTAGACATGG
ATGGCTTTGAAGAGGAGAGGAACTGGCCAGCTGAAATCACAGGGCAAGGGAGCTGGTGGGGAAGACCTCATT
TGCTGGACATTTACGCTATCGAAGAGCTCCGGGCACGGGGTCTGGAGGTCACAGATGATTCCCCAAAGTACAATT
ACCATTTGGACTCCAGTGGTAGCTATGTATTTGAGAACACAGTGGCTACGGTGATGGCTCTGCGCAGGGAGAAGA
TGTTCTGTGGAAGAGGTGTCCACAGGCCAGGAGTGTGGAGTGGTGTGACACAAGACCTGTTTCTATGCTGAGCAAG
GAGGCCAGATCTATGACGAAGGCTACCTGGTGAAGGTGGATGACAGCAGTGAAGATAAAACAGAGTTTACAGTGA
AGAATGCTCAGGTCCGAGGAGGGTATGTGCTACACATTGGAACCATCTACGGTGACCTGAAAGTGGGGGATCAGG
TCTGGCTGTTTATTGATGAGCCCCGACGAAGACCCATCATGAGCAACCACACAGCTACGCACATTCTGAACTTCG
CCCTGCGCTCAGTGCTTGGGGAAGCTGACCAGAAAGGCTCATTGGTTGCTCCTGACCGCCTCAGATTTGACTTTA
CTGCCAAGGGAGCCATGTCCACCCAACAGATCAAGAAGGCTGAAGAGATTGCTAATGAGATGATTGAGGCAGCCA
AGGCCGTCTATACCCAGGATTGCCCCCTGGCAGCAGCGAAAGCCATCCAGGGCCTACGGGCTGTGTTTGTATGAGA
CCTATCCTGACCCGTGTGCGAGTCTGCTCCATTGGGGTCCCGGTGTCCGAGTTGCTGGATGACCCCTCTGGGCCTG
CTGGCTCCCTGACTTCTGTTGAGTTCTGTGGGGGAACGCACCTGCGGAACCTCGAGTCATGCAGGAGCTTTTGTGA
TCGTGACGGAAGAAGCCATTGCCAAGGGTATCCGGAGGATTGTGGCTGTACAGGTGCCGAGGCCAGAAAGGCC
TCAGGAAAGCAGAGAGCTTGAAGAAATGTCTCTGTCTGTCATGGAAGCCAAAGTGAAGGCTCAGACTGCTCCAAACA
AGGATGTGCAGAGGGAGATCGCTGACCTTGGAGAGGCCCTGGCCACTGCAGTCATCCCCCAGTGGCAGAAGGATG
AATTGCGGGAGACTCTCAAATCCCTAAAGAAGGTGATGGATGACTTGGACCGAGCCAGCAAAGCCGATGTCCAGA
AACGAGTGTTAGAGAAGACGAAGCAGTTTCATCGACAGCAACCCCAACCAGCCTCTTGTCTATCCTGGAGATGGAGA
GCGGCGCCTCAGCCAAGGCCCTGAATGAAGCCTTGAAGCTCTTCAAGATGCACTCCCTCAGACTTCTGCCATGC
TCTTCACGGTGGACAATGAGGCTGGCAAGATCACGTGCCTGTGTCAAGTCCCCCAGAATGCAGCCAATCGGGCT
TAAAAGCCAGCGAGTGGGTGCAGCAGGTGTGAGGCTTGTATGGACGGTAAAGGTGGTGGCAAGGATGTGTCTGCAC
AGGCCACAGGCAAGAACGTTGGCTGCCTGCAGGAGGCGCTGCAGCTGGCCACTTCTTCGCCCAGCTGCGCCTCG
GGGATGTAAAGAACTGAGTGGGGAAGGAGGAGGCTCCCACTGGATCCATCCGTCCAGCCAAGAGCTCTTCATCTG
CTACAAGAACATTTGAATCTTGGGACCTTTAAAGAGCCCCCTCCTAACCAGCAGTAAGTGAACACACTTGGGAG
CAGTCTATGTCTCAGTGCCCCCTTAAATTTCTGCCCTGAGCCCTCCACGTGAGTCCATCGGTCTAGAACCACTA
ACCCGCAATTGCTGTTGATCGTCACGCTCGCATCTATAGATAACGGCTCTCCAGACCTGAGCTTTCCGCGTCAGC
AAGTAGGAATCGTTTTTGTGTCAGAGAATAAAAGGACCACGTGC

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FIGURE 4565

MDSTLTASEIRQRFIDFFKRNEHTYVHSSATIPLDDPTLLFANAGMNQFKPIFLNTIDPSHPMAKLSRAANTQKC
IRAGGKQNDLDDVGKDVYHHTFFEMLGSWSGDYFKELACKMALELLTQEFGIPIERLYVTYFQGDEAAGLEADL
ECKQIWQNLGLDDTKILPGNMKDNFWEMGDTGPCGPCSEIHYDRIGGRDAAHLVNQDDPNVLEIWNLVFIQYNRE
ADGILKPLPKSIDTGMGLERLVSVLQNKMSNYDTDLFVPYFEAIQKGTGARPYTGKVGAEADADGIDMAYRVLAD
HARTITVALADGGRPDNTGRGYVLRRIILRAVRYAHEKLNASRGFFATLVDVQSLGDAFFELKKDPMVKDII
NEEEVQFLKTLRGRRIILDRKIQSLGDSKTIIPGDTAWLLYDITYGFPVDLTGLIAEEKGLVVDMDGFEEERKLAQL
KSQKGAGGEDLIMLDIYAIEELRARGLEVTDSPKYNHYLDSSGSYVFENTVATVMALRREKMFVEEVSTGQEC
GVVLDKTCFYAEQGGQIYDEGYLVKVDSSSEDKTEFTVKNAQVRGGYVLHIGTIYGD LKVG DQVWLFIDEPRRRP
IMSNHTATHILNFALRSVLGEADQKGS L VAPDRLRFDF TAKGAMSTQQIKKAE EIANEMIEAAKAVYTQDCPLAA
AKAIQGLRAVDFDETYPDVVRVVSIGVPVSELLDDPSGFPAGSLTSVEFCGGTHLRNSSHAGAFVIVTEEAIAGIR
RIVAVTGAEAQKALRKAESLKKCLSVMEAKVKAQTAPNKDVQREIADLGEALATAVIPQWQKDELRETLKSLKKV
MDDLDRASKADVQKRVLEKTKQFIDSNPNQPLVILEMESGASAKALNEALKLFKMHSPQTSAMLFTVDNEAGKIT
CLCQVPQNAANRGLKASEWVQQVSGLMDGKGGGKDVSAQATGKNVGC LQEALQLATSFAQLRLGDVKN

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FIGURE 4566

GTAGTGGGGCTGGAGCAGAGCCTGCCGCGAACCCCCGGAGCCCACGATCCCTCGTGCCATCCCTCGAATCCACCA
GCACGAGCGTCCCACCCGCGCTGGGACCATGGCCACTGACTCATGGGCCCTGGCGGTGGACGAGCAGGAAGCTG
CGGCTGAGTCGTTGAGCAACTTGCATCTTAAGGAAGAGAAAATCAAACCAGATACCAATGGTGCTGTTGTCAAGA
CCAATGCCAATGCAGAGAAGACAGATGAAGAAGAGAAAGAGGACAGAGCTGCCCAGTCCTTACTCAACAAGCTGA
TCAGAAGCAACCTTGTTGATAACACAAACCAAGTGGAAAGTCTTCAGCGGGATCCAAACTCCCCCTCTGTACTCGG
TGAAGTCTTTTGAAGAGCTTCGGCTGAAACCACAGCTTCTCCAAGGAGTCTATGCCATGGGTTTCAATCGTCCAT
CCAAGATACAAGAGAACGCATTGCCACTGATGCTTGCTGAGCCCCACAGAACTTAATTGCCCAATCTCAGTCTG
GTACTGGTAAAACAGCTGCCTTCGTGCTGGCCATGCTTAGCCAAGTAGAACCTGCAAAATAACCCCCAGTGTG
TATGTCTCTCCCCAACGTATGAGCTCGCCCTCCAAACAGGAAAAGTGATTGAACAAATGGGCAAAATTTTACCCTG
AACTGAAGCTAGCTTATGCTGTTTCGAGGCAATAAATTGGAAAGAGGCCAGAAGATCAGTGAGCAGATTGTCATTG
GCACCCCTGGGACTGTGCTGGACTGGTGCTCCAAGCTCAAGTTCATTGATCCCAAGAAAATCAAGGTGTTTGTTT
TGGATGAGGCTGATGTCATGATAGCCACTCAGGGCCACCAAGATCAGAGCATCCGCATCCAGAGGATGCTGCCCA
GGAAGTCCAGATGCTGCTTTTCTCCGCCACCTTTGAAGACTCTGTGTGGAAGTTTGCCAGAAAAGTGGTCCCAG
ACCCAAACGTTATCAAACCTGAAGCGTGAGGAAGAGACCCTGGACACCATCAAGCAGTACTATGTCTGTGCAGCA
GCAGAGACGAGAAGTTCCAGGCCTTGTGTAACCTCTACGGGGCCATCACCATTGCTCAAGCCATGATCTTCTGCC
ATACTCGCAAAACAGCTAGTTGGCTGGCAGCAGAGCTCTCAAAGAAGGCCACCAGGTGGCTCTGCTGAGTGGGG
AGATGATGGTGGAACAGAGGGCTGCAGTGATTGAGCGCTTCCGAGAGGGCAAAGAGAAGGTTTTGGTGACCACCA
ACGTGTGTGCCCGCGGCATTGATGTTGAACAAGTGTCTGTCGTCATCAACTTTGATCTTCCCGTGGAACAAGGACG
GGAATCCTGACAATGAGACCTACCTGCACCGGATCGGGCGCACGGGCCGCTTTGGCAAGAGGGGCCCTGGCAGTGA
ACATGGTGGACAGCAAGCACAGCATGAACATCCTGAACAGAATCCAGGAGCATTTTAATAAGAAGATAGAAAAGAT
TGGACACAGATGATTTGGACGAGATTGAGAAAATAGCCAACTGAGAAGCTCCACCAGCCACTGATGCCAGCCCTG
GCACTGCCCTGCACAGGAGACAAGTGCGTTCAGGGCACAGGCCCCGACATCACCCCAAGGACAACGGCACAAGT
AGAGAGAAACTACCTACCTCACTTCAAATTATGTTTGGACTTGACAAAAATGTATGCAATGATGGGGGATGGTA
GAAAAAAATTATTTACACAACCTTGGAAGATTAGGCATGAATACACAGAGATTTACCTTTTGGAIAAAAAAAAAA
AAAAAA

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FIGURE 4567

MATDSWALAVDEQEAAAEISLNLHLKEEKIKPD TNGAVVKTNANA EKTDEEEKEDRAAQSLNKLIRSNLVDNTN
QVEVLQRDPNSPLYSVKSFEELRLKPQLLQGVYAMGFNRPSKIQENALPLMLAEPPQNLIQSQSGTGKTA AFVL
AMLSQVEPANKYPQCLCLSP TYELALQTGKVIEQMKG FYPELKLAYAVRGNKLERGQKISEQIVIGTPGTVLDWC
SKLKFIDPKKIKVFVLDEADVMIATQGHQDQSIRIQ RMLPRNCQMLLFSATFEDSVWKFAQKVVPDPNVIK KRE
EETLDTIKQYYVLCSSRDEKFQALCNLYGAITIAQAMIFCHTRKTASWLAAELSKEGHQVALLSGEMMVEQRAAV
IERFREGKEKVLVTTNVCARGIDVEQVSVVINFDLPVDKDGNDNETYLHRIGRTGRFGKRGLAVNMVDSKHSMN
ILNRIQEHFNKKIERLDTDDLDEIEKIAN

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FIGURE 4568

GTACTATCCTCCTTACTTTTGGGTCGGGCCCTCCGGGAAGATGCGCGCCGTGCAGGCGGCCGAGGTGAAAGTGGA
TGGCAGCGAGCCGAAACTGAGCAAGAATGAGCTGAAGAGACGCCTGAAAGCTGAGAAGAAAGTAGCAGAGAAGGA
GGCCAAACAGAAAGAGCTCAGTGAGAAACAGCTAAGCCAAGCCACTGCTGCTGCCACCAACCACACCACTGATAA
TGGTGTGGGTCTTGAGGAAGAGAGCGTGGACCCAAATCAATACTACAAAATCCGCAGTCAAGCAATTCATCAGCT
GAAGGTCAATGGGGAAGACCCATACCCACACAAGTTCCATGTAGACATCTCACTCACTGACTTCATCCAAAAATA
TAGTCACCTGCAGCCTGGGGATCACCTGACTGACATCACCTTAAAGGTGGCAGGTAGGATCCATGCCAAAAGAGC
TTCTGGGGGAAAGCTCATCTTCTATGATCTTCGAGGAGAGGGGGTGAAGTTGCAAGTCATGGCCAATTCAGAAA
TTATAAATCAGAAGAAGAATTTATTCATATTAATAACAACTGCGTCGGGGAGACATAATTGGAGTTCAGGGGAA
TCCTGGTAAAACCAAGAAGGTGAGCTGAGCATCATTCCGTATGAGATCACACTGCTGTCTCCCTGTTTGCATAT
GTTACCTCATCTTCACTTTGGGCTCAAAGACAAGGAAACAAGGTATCGCCAGAGATACTTGGACTTGATCCTGAA
TGACTTTGTGAGGCAGAAATTTATCATCCGCTCTAAGATCATCACATATATAAGAAGTTTCTTAGATGAGCTGGG
ATTCTAGAGATTGAAACTCCCATGATGAACATCATCCCAGGGGGAGCCGTGGCCAAGCCTTTCATCACTTATCA
CAACGAGCTGGACATGAACCTTATATATGAGAATTGCTCCAGAACTCTATCATAAGATGCTTGTGGTTGGTGGCAT
CGACCGGGTTTATGAAATTGGACGCCAGTTCCGGAATGAGGGGATTGATTTGACGCACAATCCTGAGTTACCCAC
CTGTGAGTTCTACATGGCCTATGCAGACTATCACGATCTCATGGAATCACGGAGAAGATGGTTTCAGGGATGGT
GAAGCATATTACAGGCAGTTACAAGGTCACCTACCACCCAGATGGCCCAGAGGGCCAAGCCTACGATGTTGACTT
CACCCACCCCTTCGGCGAATCAACATGGTAGAAGAGCTTGAGAAAGCCCTGGGGATGAAGCTGCCAGAAACGAA
CCTCTTTGAAACTGAAGAACTCGCAAAATCTTGATGATATCTGTGTGGCAAAGCTGTTGAATGCCCTCCACC
TCGGACCACAGCCAGGCTCCTTGACAAGCTTGTTGGGGAGTTCCTGGAAGTGAAGTTCATCAATCCTACATTGAT
CTGTGATCACCCACAGATAATGAGCCCTTTGGCTAAATGGCACCGCTCTAAAGAGGGTCTGACTGAGCGCTTTGA
GCTGTTTGTGATGAAGAAAGAGATATGCAATGCGTATACTGAGCTGAATGATCCCATGCGGCAGCGGCAGCTTTT
TGAAGAACAGGCCAAGGCCAAGGCTGCAGGTGATGATGAGGCCATGTTCATAGATGAAAACCTTCTGTACTGCCCT
GGAATATGGGCTGCCCCCACAGCTGGCTGGGGCATGGGCATTGATCGAGTCGCCATGTTTCTCACGGACTCCAA
CAACATCAAGGAAGTACTTCTGTTTCTGCCATGAAACCCGAAGACAAGAAGGAGAATGTAGCAACCACTGATAC
ACTGGAAGCACAACAGTTGGCACTTCTGTCTAGAAAAATAATAATTGCAAGTTGTATAACTCAGGCGTCTTTGCA
TTTCTGCGAAAGATCAAGGTCTGCAAGGGAATCTTGTGTGCTGCTTTCCATTTGACACCGCAGTTCTGTTCAGC
CATCAGAAGAGAGACAAGGAATTAAAAATTTCTTTTAAATCCTGTTA

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FIGURE 4569

MAAVQAAEVKVDGSEPKLSKNELKRRLKAEKKVAEKEAKQKELSEKQLSQATAAATNHTTDNGVGPEEESVDPNQ
YYKIRSQAIIHQLKVNGEDPYPHKFHVDISLTDIFIQKYSHLQPGDHLTDITLKVAGRIHAKRASGGKLIFYDLRGE
GVKLQVMANSRNYKSEEEFIHINNKLRGDIIGVQGNPGKTKKGELSIIPYEITLLSPCLHMLPHLHFGLKDKET
RYRQRYLDLILNDFVRQKFIIRSKIITYIRSFLDELGFLEIETPMMNIIIPGGAVAKPFITYHNELDMNLYMRIAP
ELYHKMLVVGGIDRVYEIGRQFRNEGIDLTHNPEFTTCEFYMAYADYHDLMEITEKMOVSGMVKHITGSYKVITYHP
DGPEGQAYDVDFTPPFRRINMVEELEKALGMKLPETNLFETEETRKIILDDICVAKAVECPPPRTTARLLDKLVGE
FLEVTCINPTFICDHPQIMSPKAKWHRSEGLTERFELFVMKKEICNAYTELNDPMRQRQLFEEQAKAKAAGDDE
AMFIDENFCTALEYGLPPTAGWGMGIDRVAMFLTDSNNIKEVLLFPAMKPEDKKENVATTDILESTTVGTSV

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FIGURE 4570

AAGATGGCGGACCTTGATTGCGCTCCGAAGCTGTCAGGGGTGCAGCAGCCGTCTGAGGGGGTGGGAGGTGGCCGC
TGCTCCGAAATCTCCGCTGAGCTCATTGCTCCCTGACAGAGCTGCAGGAGCTGGAGGCTGTATACGAACGGCTC
TGCGGCGAGGAGAAAGTGGTGGAGAGAGAGCTGGATGCTCTTTTGGAACAGCAAAACACCATTGAAAGTAAGATG
GTCACCTCTCCACCGAATGGGTCCTAATCTGCAGCTGATTGAGGGAGATGCAAAGCAGCTGGCTGGAATGATCACC
TTTACCTGCAACCTGGCTGAGAATGTGTCCAGCAAAGTTCTGTCAGCTTGACCTGGCCAAGAACCGCCTCTATCAG
GCCATTGAGAGAGCTGATGACATCTTGGACCTGAAGTTCTGTCATGGATGGAGTTGAGACTGCTTTGAGGAGTGAA
GATTATGAGCAGGCTGCAGCACATACTCATCGCTACTTGTGCCTGGACAAGTGGGTCAATTGAGCTCAGCCGACAG
GGCAAAGAGGGGAGCATGATTGATGCCAACCTGAAATTGCTGCAGGAAGCTGAGCAACGTCTCAAAGCCATTGTG
GCAGAGAAGTTTGCCATTGCCACCAAGGAAGGTGATCTGCCCCAGGTGGAGCGCTTCTTCAAGATCTTCCCCTG
CTGGGTTTGCATGAGGAGGGATTAAGAAAGTTCTCGGAGTACCTTTGCAAGCAGGTGGCCAGTAAAGCTGAGGAG
AATCTGCTCATGGTGTCTGGGGACAGACATGAGTGATCGGAGAGCTGCAGTCATCTTTGAGATACACTTACTCTT
CTGTTTGAAGGGATTGCCCGCATTGTGGAGACCCACCAGCCAATAGTGGAGACCTATTATGGGCCAGGGAGACTC
TATACCCTGATCAAATATCTGCAGGTGGAATGTGACAGACAGGTGGAGAAGGTGGTAGACAAGTTCATCAAGCAA
AGGGACTACCACCAGCAGTTCCGGCATGTTTCAAGACAACCTGATGAGAAATTCTACAACAGAAAAAATCGAACCA
AGAGAACTGGACCCCATCTGACTGAGGTCAACCTGATGAATGCCCGCAGTGAGCTATACTTACGCTTCTCTCAAG
AAGAGGATTAGCTCTGATTTTGGAGGTGGGAGACTCCATGGCCTCAGAGGAAGTAAAGCAAGAGCACCAGAAGTGT
CTGGACAAACTCCTCAATAACTGCCCTTTTGGAGCTGTACCATGCAGGAGCTAATTGGCTTATATGTTACCATGGAG
GAGTACTTCATGAGGGAGACTGTCAATAAGGCTGTGGCTCTGGACACCTATGAGAAGGGCCAGCTGACATCCAGC
ATGGTGGATGATGTCTTCTACATTGTTAAGAAGTGCATTGGGCGGGCTCTGTCCAGCTCCAGCATTGACTGTCTC
TGTGCCATGATCAACCTCGCCACCACAGAGCTGGAGTCTGACTTCAGGGATGTTCTGTGTAATAAGCTGCGGATG
GGCTTTCTGCCACCACCTTCCAGGACATCCAGCGCGGGGTGACAAGTGCCGTGAACATCATGCACAGCAGCCTC
CAGCAAGGCAAATTTGACACAAAAGGCATCGAGAGTACTGACGAGGCGAAGATGTCCTTCTGGTGAATCTGAAC
AACGTGGAAGTCTGCAGTGAAACATCTCCACTCTGAAGAAGACACTGGAGAGTGACTGCACCAAGCTCTTCAGC
CAGGGCATTTGGAGGGGAGCAGGCCCAGGCCAAGTTTGACAGCTGCCTTTCTGACTTGGCCGCCGTGTCCAACAAA
TTCCGAGACCTCTTGAGGAAGGGCTGACGGAGCTCAACAGCACAGCCATCAAGCCACAGGTGCAGCCTTGGATC
AACAGCTTTTTCTCCGTCTCCCAACATCGAGGAGGAAGAATTCAATGACTATGAGGCCAACGACCTTGGGTG
CAACAGTTTCACTTAACCTGGAGCAGCAAATGGCAGAGTTCAAGGCCAGCCTGTCCCCGGTCTCTACGACAGC
CTAACCGGCCCTCATGACTAGCCTTGTTGCCGTGAGTTGGAGAAAGTGGTGTGAAATCCACCTTTAACCGGCTG
GGTGGTCTGCAGTTTGACAAGGAGCTGAGGTGCTCATTTGCCTACCTTACCACGGTGACCACCTGGACCATCCGA
GACAAGTTTGCCCGGCTCTCCAGATGGCCACCATCTCAATCTGGAGCGGGTGACCGAGATCCTCGATTACTGG
GGACCCAATTCCGGCCCATTGACGTGGCGCCTCACCCCTGCTGAAGTGCGCCAGGTGCTGGCCCTGCGGATAGAC
TTCCGCAGTGAAGATATCAAGAGGCTGCGCCTGTAGCTGCCTGGATGAGCACACCTGGCTCATCACACTTGCAGG
CCTGTTCCCTAAGGGGCCCCAGCCAAGGAGCTGAGCGAGGCTGTCTGGCTTGGGGGAGATCTGACAGCCCAGACC
TTTCTACGGCTGGCAGCAGAGAAACAAAGTCTGGACCCACTCCATGCTCTGCCCTCAGACCTGGCCAGGTGATGC
TCTGGGGGCGAGCATCTCCCCACCGAGAGAAGCGGGCTCCTAATGAGGTGGGAAAGCCACGGCAGGCAGCGAGCAG
CCCAGGCCAGCTTTCTGATGGATGGTCAGTCTTGGCCCTCAAACACTACAGCAAACAAGCTACCCCTGCCAGT
CCTAGACAACCTTGGGTACATCTGGGGACCTAGCAGTTAGGCTTGACTTTGAGGAGAGGCTGTGATGTTTATGATC
CCTGAATAAAGCTACTCCTTGGAGAGATGCCAGTGTGCTGTTACCAGGGAGGGCCAGATGCTATGGGGC

[illegible]

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FIGURE 4572

MCEGPSRISGPIPPDPTLCPDNYRRPTSAQGRLEGNAKLDLLTSDRALDTTAPRGPCIGPGAGEILERGQRGVG
DVLLQLEGISLGPGASLKRKDPKDHEKENLRRIREIQKRFREQERSREQGQPRPLKALWRSPKYDKVESRVKAQL
QEPGPASGTESAHLRAHSRCGPGLPPPHVSSPQTPPGPEAKEPGLGVDFIRHNARAARKRAPRRHSCSLQVLAQ
VLEQQRQAQEHYNATQKGHVPHYLLERRDLWRREAEARKQSQPDPA MPPGHTRMPENQRLETTLTKLLQSQSQLLR
ELVLLPAGADSLRAQSHRAELDRKLVQVEEAIKIFSRPKVFVKMDD

[illegible]

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FIGURE 4574

MKMLPGVDVFGTGSSARVLVPLLRAEGFTVEALWGKTEEEAKQLAEEMNIAFYTSRTDDILLHQDVDLVCISIPP
PLTRQISVKALGIGKNVCEKAATSVDAFRMVTASRYYPQLMSLVGNVLRFLPAFVRMKQLISEHYVGAVMICDA
RIYSGSLLSPSYGWICDELMGGGGLHTMGTYIVDLLTHLTGRRAEKVHGLLKTFVRQNAAIRGIRHVTSDDFCFF
QMLMGGGVCSTVTILNFMPGAFFVHEVMVVGSAAGRLVARGADLYGQKNSATQEELLLRDSLAVGAGLPEQGPQDVP
LLYLKGMVYMVQALRQSFQGGQDRRTWDRTVPVMAASFEDGLYMQSVVDAIKRSSRSGEWEAVEVLTEEPDTNQNL
LCEALQRNNL

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FIGURE 4575

GGAAGGGACAGTCGGCCGCAGACCGCGCTGGGTTGCCGCTGCCGCTGCCGCCATCGTGCCAGCCCCCTCGGGTCTC
CGTGAGGCCGGGTGACGCTCCAGAAATGGGAGACAAGCCAATTTGGGAGCAGATTGGATCCAGCTTCATTCAACAT
TACTACCAGTTATTTGATAATGATAGAACCCAACTAGGCGCAATTTACATTGACGCGTCATGCCTTACGTGGGAA
GGACAACAGTTCCAGGGGAAAGCTGCCATTGTGGAGAAGTTGTCTAGCCTTCCGTTCCAGAAAAATTCAGCACAGC
ATCACCGCGCAGGACCATCAGCCCCACTCCAGATAGCTGCATCATCAGCATGGTTGTGGGCCAGCTTAAGGCGGAT
GAAGACCCCATCATGGGGTTCCACCAGATGTTCCATTAAAGAACATCAACGATGCTTGGGTTTGCACCAATGAC
ATGTTTCAAGGCTCGCCCTGCACAACCTTTGGCTGACCTCCTCTCAGCTAGGCACTCACGCTGTTTCCCTCCTCCCTCC
TCTTCCCAATACTATTCCCACTCCTCCAGATGCTCCAAATATCATGCACAAATGAGCAGGGCCGCGGTGGGAGTG
GGCGCAGTGCGCTGCTGCCACTGAGGTGTTGTGCATGATGTTTGGATGCTAGACTAGTTGCATCTGACGGGAGAA
GTTTGTGTTGTACAGCGCATGCCTTGGAAGACTTAAGTAATGCAAAAGGTTGTCCTTTTTTTTTTTTTTTTTTTT
TTTTAATCTACTGACAAGTTGCTCTAGTAACCCAAAGAAGTGAAGGAGAAAGCAGCTGCCTCACCGCCCAGACAT
TGATTTGTTTCAGATGTTTCAATGCCTCATGATACAATAAAACCACAAAAATTTCTTAACAAAAA

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FIGURE 4576

MGDKPIWEQIGSSFIQHYYQLFDNDRTQLGAIYIDASCLTWEGQQFQGKAAIVEKLSSLPFQKIQHSITAQDHQP
TPDSCIISMVVGQLKADEDPIMGFHQMFLLKNINDAWVCTNDMFRLALHNFG

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FIGURE 4577

ATTGCCCGGAGATGGCCGGCAGAGCCGCCGAGACGCCGAAGAGCCCCGCCGCCGCGCGAGGTGTAGACGGGGCAC
TGCCTTCAGAGCAGGTCTCGCCAGCCTCGCTGGAGAGGATGCCCTCGTGTCCGTGATGGGCTGTGGGACAAGCAA
GGTCTTCCCGAGCCACCCAAGGATGTCCAGCTGGATCTGGTCAAGAAGGTGGAGCCCTTCAGTGGCACTAAGAG
TGACGTGTACAAGCACTTCATCACAGAGGTGGACAGTGTGGCCCTGTCAAAGCCGGGTTCCAGCAGCAAGTCA
GTATGCACACCCCTGCCCCGGTCCCCGACTGCTGGCCACACGGAGCCTCCCTCAGAACCACCACGCAGGGCCAG
GGTAGCTAAGTACAGGGCCAAGTTTGACCCACGTGTTACAGCTAAGTATGACATCAAGGCCCTAATTGGCCGAGG
CAGCTTCAGCCGAGTGGTACGTGTAGAGCACCGGGCAACCCGGCAGCCGTATGCCATCAAGATGATTGAGACCAA
GTACCGGGGAGGGGGCGGGAGGTGTGTGAGTCGGAGCTGCGTGTGCTGCGTCGGGTGCGTCATGCCAACATCATCCA
GCTGGTGGAGGTGTTTCGAGACACAGGAGCGGGTGTACATGGTGTATGGAGCTGGCCACTGGTGGAGAGCTCTTTGA
CCGCATCATTGCCAAGGGCTCCTTCACCGAGCGTGACGCCACGCGGGTGTGTCAGATGGTGTGATGGCGTCCG
GTATCTGCATGCACTGGGCATCACACACCGAGACCTCAAACCTGAGAATCTGCTCTACTACCATCCGGGCACTGA
CTCCAAGATCATCATCACCAGCTTCGGCCTGGCCAGTGTCTCGCAAGAAGGGTGTGACTGCTTGATGAAGACCAC
CTGTGGCAGCCTGAGTACATTGCCCCAGAAGTCTGGTCCGCAAGCCATACACCAACTCAGTGGACATGTGGGC
GCTGGGCGTCATTGCCTACATCCTACTCAGTGGCACCATGCCGTTTGAGGATGACAACCGTACCCGGCTGTACCG
GCAGATCCTCAGGGGCAAGTACAGTTACTCTGGGGAGCCCTGGCCTAGTGTGTCCAACCTGGCCAAGGACTTCAT
TGACCGCCTGCTGACAGTGGACCCTGGAGCCCGTATGACTGCACTGCAGGCCCTGAGGCACCCGTGGGTGGTGTAG
CATGGCTGCCTCTTCATCCATGAAGAACCTGCACCGCTCCATATCCAGAACCTCCTTAAACGTGCCTCCTCGCG
CTGCCAGAGCACCAAATCTGCCCAGTCCACGCGTTCCAGCCGCTCCACACGCTCCAATAAGTCACGCCGTGTGCG
GGAACGGGAGCTGCGGGAGCTCAACCTGCGCTACCAGCAGCAATAACAATGGCTGAGCCGCCCTGGCTGTGCACACA
TGCAGCACGACCCAGCCTGGCCACACACTGTGGTGGCATCTGGGTCCGATGCCCTCTCTGGAGATAGGCCTATGT
GGCCACAGTAGGTGAAGAATGTCTGGCTCCAGCCCTTTCTCTGTGCCTTCAGCAGCCCTGTCTCACCATGGG
CCTGGGCCAGGTGTGACAGAGTAGAGGTAGCACAGGGGGCTGTGACTCCCCCTGAACCTGGGAGCCTGGCCTGGCA
CTGATACCCCTCTTGGTGGGCAGCTGCTCTGGTGGAGTTGGGAAGGGATAGGACCTGGCCTTCACTGTCTCCCTT
GCCCTTTGACTTTTCCCCAATCAAAGGGAACCTGCAGTGTCTGGGTGGAGTGTCTGTGGCCTCAGGACCCTTTGGG
ACAGTTACTTCTGGGACCCCTTTCTCCACAGAGCCCTTCTCCCTGGTTTACACATTCCCATGCATCCTGATC
CTTAAGATTATGCTCCAGTGGGAGACCCTGGTAGGCACAAAGCTTGTGCCTTGACTGGACCCGTAGCCCTGGCT
AGGTGCAAAACAGCCCTCCACCTCCCAGCCAAGATCTGTCTTCTTCATGGTGCCTCCAGGGAGCCTTCTGGTCC
CAGGACCTCTGGTGGAGGGCCATGGCGTGGACCTTACCCTTCTGGACTGTGTGGCCATGCTGGTCATCGGCTTG
CCCAGGCTCCAGCCTCTCCAGATTCTGAGGGGTCTCAGCCACCGCCCTTGGTGCCTTCTTTGTAGAGCCCACCG
CTACCTCCCTCTCCCCGTGGATGTCCATTCCATTCCCAGGTGCCTCCTTCCCAACTGGGGGTGGTTAAAGGGA
GCCCCACTGCTGCTACCTGGGGAATGGGGCACCTGGGGGCCAAGGCAGAGGGAAGGGGGTCTCCCGATAGGGTC
GAGTGTACAGCCTGGGTTCTATCCTTTGGTGCAGCCCCATTGCCTTTTCCCTTCAGGCTCTGTTGCTCCCTCCTCT
GCAGCTGCACGAAGGCGCCATCTGGTGTCTGCATGGGTGTTGGCAGCCTGGGAGTGATCACTGCACGCCCATCGT
GCACACCTGCCCATCGTGCACACCCACCCATGGTGCACACCTGTAGTCTCTCCATGAGGACATGGGAAGGTAGGAG
TTGCCGCCCTGGGGGAGGGTCCCGGGCTGCTCACCTCTCCCTTCTGCTGAGCTTCTGCGCACCCCTCCCTGGAA
CTTAGCCATACTGTGTGACCTGCCTCTGAAACCAGGGTGCCAGGGGCACTGCCTTCTCACAGCTGGCCTTGCCCC
GTCCACCCTGTGCTGCTTCCCTTCACAGCATTAAACCTTCCAGTCTGGGTCCCACTGAGCCTCAAGCTGGAAGGAG
CCCCTGCGGGAGGTGGGTGGGGTGGGTGGCTGCTTTCCAGAGGCCTGAGCCAGAACCATCCCCATTTCTTTTG
TGGTATCTCCCCCTACCACAAACCAGGCTGGAACCCAAGCCCTTCTCCACAGCTGCCTTCAGTGGGTAGAATG
GGGCCAGGGCCCAGCTTTGGCCTTAGCTTGACGGCAGGGCCCCCTGCCATTGCAGGAGGGTTTGGTTCCCACTCAG
CTTCTGCCGGTCGGCAGCCTGGGCCAGGCCCTTTCTCTGCATGTGCCACCTCCAGTGGGAAACAAAATAAGAG
ACCACTCTGTGCCAAGTCGACTATGCCTTAGACACATCCTCCTACCGTCCCCAATGCCCCCTGGGCAGGAGGCAG
TGGAGAACCAAGCCCCATGGCCTCAGAATTTCCCCCAGTTCCCCAAGTGTCTCTGGGGACCTGAAGCCCTGGGG
CTTACGTTCTCTCTTGGCCAGGGTGGGCCTGGTCTGAGGGCAGGACAGGGGGTTTGGAGATGTGGGCCTTTGAT
AGACCCACTTGGGCCTTCATGCCATGGCCTGTGGATGGAGAATGTGCAGTTATTTATTATGCGTATTCAGTTTGT
AAACGTATCCTCTGTATTTCAGTAAACAGGCTGCCTCTCCAGGGAGGGCTGCCATTTCATTC

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FIGURE 4578

MCGGTISKVLPEPPKDVQLDLVKKVEPFSGTKSDVYKHFITEVDSVGPVKAGFPAASQYAHPCPGPPTAGHTEPPS
EPFRRARVAKYRAKFDPRVTAKYDIKALIGRGSFSRVVRVEHRATRQPYAIKMIETKYREGREVCESELRLRRV
RHANIIQLVEVFETQERVYVMELATGGELFDRIIAKGSFTERDATRVLQMVLGDGVRYLHALGITHRDLKPENLL
YYHPGTDSKIIITDFGLASARKKGDDCLMKTTTCGTPEYIAPEVLVRKPYTNSVDMWALGVIAYILLSGTMPFEDD
NRRLYRQILRGKYSYSGEPWPSVSNLAKDFIDRLLTVDPGARMTALQALRHPWVVSMAASSSMKNLHRSISQNL
LKRASSRCQSTKSAQSTRSSRSTRSNKSRRVRERELRELNRLRYQQYNG

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FIGURE 4579

ATCTGCCACGATGTTGCTGCTCAGCCTGACCCTAAGCCTGGTTCTCCTCGGCTCCTCCTGGGGCTGCGGCATTCC
TGCCATCAAACCGGCACTGAGCTTCAGCCAGAGGATTGTCAACGGGGAGAATGCAGTGTTGGGCTCCTGGCCCTG
GCAGGTGTCCCTGCAGGACAGCAGCGGCTTCCACTTCTGCGGTGGTTCTCTCATCAGCCAGTCCTGGGTGGTCAC
TGCTGCCCCACTGCAATGTCAGCCCTGGCCGCCATTTTGTGTCTCCTGGGCGAGTATGACCGATCATCAAACGCAGA
GCCCTTGCAGGTTCTGTCCGTCTCTCGGGCCATTACACACCCTAGCTGGAACTCTACCACCATGAACAATGACGT
GACGCTGCTGAAGCTCGCCTCGCCAGCCAGTACACAACACGCATCTCGCCAGTTTGCTGGCATCCTCAAACGA
GGCTCTGACTGAAGGCCTCACGTGTGTCACCACCGGCTGGGGTCGCCTCAGTGGCGTGGGCAATGTGACACCAGC
ACATCTGCAGCAGGTGGCTTTGCCCTGGTCACTGTGAATCAGTGCCGGCAGTACTGGGGCTCAAGTATCACTGA
CTCCATGATCTGTGCAGGTGGCGCAGGTGCCTCCTCGTGCCAGGGTGACTCCGGAGGCCCTCTTGTCTGCCAGAA
GGGAAACACATGGGTGCTTATTGGTATTGTCTCCTGGGGCACCAAAACTGCAATGTGCGCGCACCTGCTGTGTA
TACTCGAGTTAGCAAAGTTCAGCACCTGGATCAACCAGGTCATAGCCTACAACTGAGCTCACCACAGGCCCTCCCC
AGCTCAACCCATTAAAGACCCAGGCCCTGTCCCATCATGCATTATGTCTGTCTTCTCCTGGCTCAGGAGAAAGAAG
AGGCTGTTGAGGGTCCGACTCCCTACTTGGACTTCTGGCACAGAAGGGGCTGAGTGACTCCTTGAGTAGCAGTGG
CTCTTCCTAGAGTAGCCATGCCGAGGCCGGGGCCCCACCCCTCCTCCAGGGCAACCCCTTGGTCTTACAGCAAG
AAGCCAGAACTGTTGGAATGAATGGCAGCCCTCCCTGGAGAGGCAGCCTGTTTACTGAATACAGAGGATACGTTT
ACAACTGAATACGCATAATAAATAACTGCACATTCTCCATCCAAAAAAAAAAAAAAAAA

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FIGURE 4580

MLLLSLTSLVLLGSSWCGIPAIPALSFQSRIVNGENAVLGSWPWQVSLQDSSGFHFCGGLISQSWVVTAAH
CNVSPGRHFVVLGEYDRSSNAEPLQVLSVSRAITHPSWNSTTMNNDVTLLKLASPAQYTTRISPVCLASSNEALT
EGLTCVTTGWGRLSGVGNVTPAHLQQVALPLVTVNQCRQYWGSSITDSMICAGGAGASSCQGDGGPLVCQKGNT
WVLIGIVSWGTKNCNVRAPAVYTRVSKFSTWINQVIAYN

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FIGURE 4581A

GGCACGAGGGGCGGGGACAGCGGCGGGGACAGCGGCGGGCGGCTGGGACGGCGGGTGCGGCGGGGCGGAGCCCCG
ACGATGCTCACTTCACCGTGGTGCCAGTGGACGGGCGGAGGCGGGCGACTATGACAACCTCGAGGGGCTCAGT
TGGGTGGACTACGGGGAGCGCGCCGAGCTGGATGACTCGGACGGACATGGCAACCACAGAGAGAGCAGCCCTTTT
CTTTCCCCCTTGGAGGCTTCCAGAGGAATTGACTACTATGACAGGAACCTGGCACTGTTTGAGGAAGAGCTGGAC
ATCCGCCCCAAAGGTATCGTCTCTTCTGGGAAAGCTCGTCAGCTACACCAACCTCACCAGGGCGCCAAAGAGCAT
GAGGAGGCGGAGAGTGGGGAGGGCACCCGCCGAGGGGAGCCGAGGCACCCAGCATGGGCACCCTCATGGGGGTG
TACCTGCCCTGCCTGCAGAATATCTTTGGGGTTATCCTCTTCTGCGGCTGACCTGGATGGTGGGCACAGCAGGT
GTGCTACAGGCCCTCCTCATCGTGCTTATCTGCTGCTGTTGTACCCTGCTGACGGCCATCTCCATGAGTGCCATC
GCCACCAACGGTGTGGTTCCAGCTGGGGGCTCCTATTTTCATGATCTCTCGTTCACTGGGGCCAGAATTTGGAGGT
GCTGTGGGCCTGTGCTTCTACCTGGGAACAACATTTCGAGCAGCCATGTACATCCTGGGGGCCATCGAGATCTTG
CTGACCTACATTGCCCCACCAGCTGCCATTTTTTACCCATCGGGTGCTCATGACACGTGAATGCCACTTTGAAC
AATATGCGTGTGTATGGGACCATTTTCTGACCTTCATGACCCTGGTGGTGTGTTGTGGGGGTCAAGTATGTGAAC
AAATTTGCCTCGCTCTTCTGGCCTGTGTGATCATCTCCATCCTCTCCATCTATGCTGGGGGCATAAAGTCTATA
TTTGACCTCCCGTGTGTTCCGGTATGCATGCTGGGCAACAGGACCCTGTCCCGGGACCAGTTTGACATCTGTGCC
AAGACAGCTGTAGTGGACAATGAGACAGTGGCCACCCAGCTATGGAGTTTCTTCTGCCACAGCCCCAACCTTACG
ACCGACTCCTGTGACCCCTACTTCATGCTCAACAATGTGACCGAGATCCCTGGCATCCCCGGGGCAGCTGCTGGT
GTGCTCCAGGAAAACCTGTGGAGCGCCTACCTGGAGAAGGGTGACATCGTGGAGAAGCATGGGCTGCCCTCCGCA
GATGCCCCGAGCCTGAAGGAGAGCCTGCCTCTGTACGTGGTGCCTGACATCGCCACATCCTTACCGTGCTGGTC
GGCATCTTCTTCCCTTCTGTAAACAGGCATCATGGCTGGCTCAAACCGCTCTGGGGACCTTCGTGACGCCCAGAAG
TCTATCCCTGTGGGGACCATTCTGGCCATCATTACAACCTCCCTCGTGTACTTCAGCAGTGTGGTTCTCTTTGGT
GCCTGCATTGAGGGTGTGGTTCTCCGGGACAAGTATGGCGATGGTGTGACGAGGAACCTGGTGGTGGGCACACTG
GCCTGGCCTTACCCCTGGGTATCGTCACTCGGCTCCTTCTTTTCAACGTGTGGCGCTGGCCTCCAGAGCCTCACA
GGGGCACACGCCTATTGCAGGCCATTGCCAAGGACAACATCATCCCTTCTCCGGGTGTTTGGCCACGGGAAG
GTGAATGGTGAACCCACATGGGCACTCCTCCTGACGGCACTCATCGCCGAGCTGGGCATCCTCATCGCCTCCCTC
GACATGGTGGCCCCCATCTTATCCATGTTCTTTCTGATGTGCTACCTGTTCTGTGAACCTCGCCTGTGCGGTGCAG
ACACTCCTGAGGACCCCCAACTGGCGGCCCCGGTTCAAGTACTATCACTGGGCGCTGTCTTCTGGGCATGAGT
CTCTGCCTGGCCCTTATGTTTGTCTCCTCCTGGTACTATGCCCTGGTGGCCATGCTCATCGCCGGCATGATCTAC
AAATACATCGAGTACCAAGGGGCTGAGAAGGAGTGGGGTGACGGGATCCGAGGCCTGTCCCTGAGCGCTGCCGCG
TACGCGCTGTTGCGGCTGGAGGAGGGGCTCCTCACACCAAGAACTGGCGGCGCAGCTGCTGGTGTGCTGAAG
CTGGACGAGGACCTCCACGTGAAGTACCCGCGGCTCCTCACCTTCGCTCCAGCTCAAGGCTGGCAAGGGCCTG
ACCATTGTTGGTTCTGTATCCAGGGGAGCTTCTTGGAGAGCTATGGCGAGGCTCAGGCCGCCGAGCAGACCATC
AAGAACATGATGGAATTTGAGAAGGTGAAGGGCTTCTGCCAGGTGGTGGTGGCCAGCAAGGTGCGGGAGGGGCTG
GCCCCCTCATCCAGTCTGTGGCCTGGGAGGCATGCGGCATAACTCCGTGGTGTGCTGGGCTGGCCCTACGGCTGG
CGACAGAGCGAGGACCCCGTGCCTGGAAGACCTTATTGACACCGTGCCTGCACTACGGCTGCCACCTGGCC
CTGCTCGTGCCCAAGAACATCGCCTTCTACCCAGCAACCACGAGCGCTACCTGGAGGGCCACATAGACGTGTGG
TGGATCGTGACGATGGTGGCATGCTCATGCTTCTGCCCTTCTGCTGCGCCAGCATAAGGTCTGGAGGAAGTGC
CGGATGCGCATCTTACAGTGGCCCAGATGGATGACAACAGCATCCAGATGAAGAAGGACCTGGCTGTCTTTCTG
TACCATCTGCGCCTTGAGGCCGAGGTGGAGGTGGTGGAGATGCATAACAGTGACATCTCTGCATACACCTACGAG
CGGACGCTGATGATGGAGCAGCGGTGCGAGATGCTGCGGCAGATGAGACTGACCAAGACTGAGCGGGAGCGAGAA
GCCCAGCTGGTCAAGGATCGGCACTCGGCCCTGAGGCTGGAGAGCCTGTACTCGGACGAGGAAGATGAGTCTGCA
GTGGGGGCTGACAAGATCCAGATGACGTGGACCAGGGACAAGTACATGACTGAGACCTGGGACCCAGCCATGCC
CCTGACAATTTCCGGGAGCTGGTGCACATTAAGCCGGACCAATCCAATGTGCGGCGCATGCACACTGCTGTGAAG
CTCAATGAAGTCATTGTACGCGCTCCACGACGCGCGCTGGTTCTCCTAAACATGCCTGGCCACCCAGGAAC
AGTGAGGGCGACGAGAACTACATGGAGTTCCTCGAGGTGCTGACCGAGGGCCTTGAGCGGGTGTGTTGGTGGC
GGTGGTGGCCGTGAAGTCATCACCATCTACTCTGAGCCAGTGTATCTTGTGGCCTGGAGTGCAGGTCTTGGC
CAGGACATAACAAGCTGTGGTCTGGGGTAACAGCCTCTTCCCAGCACCCACCTGCCAGCCCTGCTTGCCTGGCCC
TGCTTGGACCCAGCTTTGCTAGGTCTCCTTGGAAACCAGGCCTGGGCCTCAAATGGAGATGGATCCAGGTCT
TGTGGGACCCTGGGATGTTTGGGGACTTTACTATCTAGCACCCAGTAGGCCTGTCTTGGCCAGAGAAGACTGGT

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FIGURE 4581B

AGGGGCCGAGTGGGGTTTGAAGGCAGCCGGCCCGGCCAGCCCAGGAGCGCTATTTATTGCATATTTATTGTTTG
GATGTCACCATCAGAGACGAAGGGAAGGGTAGCCAGGGAGGGAGTCCAGCCCAGCTGCCTGCAGGAAGATCTGGC
TCAGTCTACTATGGGCAGGGCCCCCACCAGCTGAGCCGAATGGAGACAGCTGAGCTGAGGCCTGACTTTTTCA
ATAAACATTGTGTAGTTCTGGGCAA

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FIGURE 4582

MPHFTVVPVDGPRRGDYDNLEGLSWVDYGERAELEDDSDGHGNHRESSPFLSPLEASRGIDYYDRNLALFEEELDI
RPKVSSLLGKLVSYTNLTQGAKEHEEAESGEGTRRRRAAEAPSMGTLMGVYLPCLQNIQFVILFLRLTWMVGTAGV
LQALLIVLICCCCTLLTAISMSAIATNGVVPAGGSYFMISRSLGPEFGGAVGLCFYLGTTFAAAMYILGAIEILL
TYIAPPAAIFYPGSAHDTSNATLNNMRVYGTIFLTFMTLVVFGVKYVKNKFASLFLACVVISILSIYAGGIKSIF
DPPVFPVCMLGNRTLSRDQFDICAKTAVVDNETVATQLWSFFCHSPNLTTDSCDPYFMLNNVTEIPGIPGAAAGV
LQENLWSAYLEKGDIVEKHGLPSADAPSLKESLPLYVVADIATSFTVLVGIFFPSVTGIMAGSNRSGDLRDAQS
IPVGTILAIITTSLVYFSSVVLFGACIEGVVLRDKYGDGVSRLVVGTLAWPSPWVIVIGSFFSTCGAGLQSLTG
APRLLQAIKDNIIIPFLRVFGHGKVNGETWALLLTALIAELGILIASLDMVAPILSMFFLMCYLFVNLACAVQT
LLRTPNWRPRFKYYHWALSFLGMSLCLALMFVSSWYYALVAMLIAGMIYKYIEYQGAKEWGDGIRGLSLSAARY
ALLRLEEGPPHTKNWRPQLLVLLKLDEDLHVKYPRLLTFASQLKAGKGLTIVGSVIQGSFLESYGEAQAAEQTIK
NMMEIEKVKGFCQVVVASKVREGLAHLIQSCGLGGMHRNSVVLGWPGWRQSEDPRAWKTFIDTVRCTTAAHLAL
LVPKNIAFYPSNHERYLEGHIDVWWIVHDGGMLMLLPFLLRQHKVWRKCRMRIFTVAQMDDNSIQMKKDLAVFLY
HLRLEAEVEVEMHNSDISAYTYERTLMMEQRSQMLRQMLTKTEREREAQLVKDRHSALRLESLSYDEEDESAV
GADKIQMTWTRDKYMTETWDP SHAPDNFRELVHIKPDQSNVRRMHTAVKLNEVIVTRSHDARLVLLNMPGPPRNS
EGDENYMEFLEVLTEGLERVLLVRGGGREVITIYS

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FIGURE 4583

ATCGCCAGCCTCCAGTCTGCCTCCACGACGCGCCCTTCCCCAAGGCTGGCCGGGTCTGGATGTGCCATCCCCCT
ATTCGGAGCTACAGACCTCGCAGCTGAACTCTTAAAAAGAACCTCGCTTCTTCCTCACGGTGCTCCAGCTCCACA
CACCGTACTGAGCCTCGCCAGCCACCGTACGCGAGGTGCGGGCGCGTCCGTGACGTACTGATGTGCGCTTCTCC
CGCACTAAGGGAAACATGGCTCTAACGCGGCCGGTGC GGCTCTTTTCCCTCGTGACTCGGTTGCTCCTGGCGCCG
CGACGGGGCCTCACGGTCCGCAGTCCCGACGAACCCCTGCCGGTGGTGCGCATCCAGTGGCTCTACAGCGGCAG
TTGGAACAGCGGCAGAGCAGGCGGGCGGAACCTCCCGAGGCGGGTGTGTTTCGACCCGGACCGCTGCTGGTTTTCG
GCGCGGCGGGCCGGAGTTGAACCAGCCGGCGCGCTCACACTGGGCCGTGGGAGCGCGCGCCGCTAGCCTCTCAA
GGCTGGAAGAGTCGACGCGCGCGTGGGACCACTTCTCCATCGAGCGCGCGCAACAGGAGGCGCCAGCGGTGCGA
AAGCTCTCGTCTAAGGGCAGCTTTGCTGACCTGGGCCTGGAGCCCCGTGTGCTGCACGCACTACAGGAGGCTGCG
CCTGAAGTCGTTTACGCCACAACCGTGCAGTCTAGCACCATCCCCCTCACTACTTCGCGGCCGCCATGTGTTTTGC
GCCGAGAAACCGGCAGTGGCAAGACTCTCAGCTACCTCCTGCCGTGCTTCAACGGCTCTTGGGCCAGCCAAGC
CTGGACTCCCTTCTATCCCCGCGCCCCGAGGCCTGGTCTTGTTCCTTCCCGAGAATTGGCCCAACAGGTGCGG
GCTGTGGCCCAACCTTGGGCCGCTCCTTGGGCCTGCTGGTGCGGGACCTGGAGGGAGGCCACGGCATGCGTAGG
ATCAGGCTGCAGCTGTCCAGACAGCCTTCAGCAGATGTGCTTGTGGCCACTCCAGGGGCTCTGTGGAAGGCCCTG
AAAAGTCGACTGATCAGTCTGGAGCAACTCTCCTTCTTGGTGTGGATGAGGCAGACACACTGCTGGATGAAAGC
TTCTTGGAACTGGTGGACTACATCTTAGAGAAGAGCCACATAGCAGAAGGCCAGCTGACTTGGAAAGACCCCTTC
AATCCCAAAGCTCAGTTAGTGCTGGTAGGAGCCACATTTCCCGAAGGTGTAGGCCAGTTGCTGAATAAAGTCGCC
AGCCCAGATGCTGTCAACCACCATCACCAGCTCCAAGCTCCACTGTATCATGCCTCATGTGAAACAGACATTTCTG
AGACTGAAGGGAGCAGATAAGGTGGCCGAGCTGGTGACATCCTCAAGCATCGTGACAGAGCAGAAAGGACTGGT
CCCTCAGGAACGTCTTGGTGTCTGTAAATAGCTCCAGCACTGTGAACTGGCTGGGATATATTCTGGATGACCAC
AAAATCCAACACCTAAGGTTGCAGGGGCAAATGCCAGCCTTGATGAGGGTAGGAATCTTCCAGTCTTCCAGAAG
AGCTCCCGAGACATACTTCTCTGCACAGACATAGCCTCTCGGGGCGCTGGACAGCACTGGTGTGGAGCTGGTTGTC
AATTATGATTTCCCCCAACGCTGCAAGATTACATCCACAGAGCAGGGAGAGTGGGCCGTGTGGGGAGCGAGGTG
CCAGGCACCGTCATCAGTTTTGTGACCCATCCCTGGGATGTGAGCCTGGTTTCAAGATTGAGCTGGCGGCTCGC
CGAAGGAGAAGTCTTCCAGGACTAGCATCCTCGGTGAAAGAGCCTTTGCCCCAAGCAACCTGATTTTGACAAATC
TGATTAAATGTGATGCTAGAACAGGGATCTTTCCAGTATCTTGAAGTGGGTGACCACACTTGTCACTGGGAGGC
TCTGGGCTGCCCTGTCGGCTCCTTGAGGGCGGGATGAAGTCTTTGTGACTTGGAAAGGTACGCTGCTGGCCAGC
ATTGGAGAAGAAGCTGCTGAGCATGGCTTTCTGTAGTCTTTAGCAAGACACAAGTGGATTTTGACTTTGTATCAT
GTCATGATTTCTAACAATAAATGATGTTTTTATGTGC

[illegible]

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FIGURE 4585

MILNSLSLCYHNKLILAPMVRVGTLPMLLALDYGADIVYCEELIDLKMIQCKRVVNEVLSTVDFVAPDDRVRVFR
TCEREQNRVVFQMGTSDAERALAVARLVENDVAGIDVNMGC PKQYSTKGGMGAALLSDPKIEKILSTLVKGTRR
PVTCKIRILPSLEDTLVLKRIERTGIAAIAVHGRKREERPQHPVSCEVIKAIADTL SIPVIANGGSHDHIQQYS
DIEDFRQATAASSVMVARAAMWNPSIFLKEGLRPLEEVMQKYIRYAVQYDNHYTNTKYCLCQMLREQLESPQGRL
LHAAQSSREICEAFGLGAFYEETTQELDAQARLSAKTSEQTGEPAEDTSGVIKMAVKFDRRAYPAQITPKMCLL
EWCRRKLAQFPVYETVQRPLDRLFSSIVTVAEQKYQSTLWDKSKKLAEQAAAIVCLRSQGLPEGRLGEESPSLHK
RKREAPDQDPGGPRAQELAQPGLCKKPFVALGSGEESPLEGW

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FIGURE 4586A

CGGCTGCGGTTCTTGGTGCTGCTCGGCGCGCGGCCAGCTTTTCGGAACGGAACGCTCGGCGTCGCGGGCCCCGCCC
GGAAAGTTTGGCGTGGAGTCGCGACCTCTTGGCCCCGCGCGGCCCGGCATGAAGCGGCGTTGAGGAGCTGCTGCCG
CCGCTTGCCGCTGCCGCCGCCGCCGCTGAGGAGGAGCTGCAGCACCCCTGGGCCACGCCGATGACTACTGCAAAC
TGTGGCGCCACGACGAGCTCGACTTCAAACCTCGTCTTTGGCGAGGACGGGGCGCCGCGCCGCCGCCCGGGC
TCGCGGCCTGCAGATCTTGAGCCAGATGATTGTGCATCCATTTACATCTTTAATGTAGATCCACCTCCATCTACT
TTAACCACACCACTTTGCTTACCACATCATGGATTACCGTCTCACTCTTCTGTTTTGTCACCATCGTTTTAGCTC
CAAAGTCACAAAACTATGAAGGAACCTGTGAGATTCTGAATCTAAATATAGCCCATTAGGTGGTCCCAAACCC
TTTGAGTGCCCCAAGTATTCAAATTACATCTATCTCTCTAACTGTCAATCAAGAATTAGATGCACATGAAGATGAC
CTACAGATAAAATGACCCAGAACGGGAATTTTTGGAAAGGCCTTCTAGAGATCATCTCTATCTTCTCTTGAGCCA
TCCTACCGGGAGTCTTCTCTTAGTCCTAGTCCTGCCAGCAGCATCTCTCTAGGAGTTGGTTCTCTGATGCATCT
TCTTGTGAATCGTTTTACATATTTATGATGATGTGGACTCAGAGTTGAATGAAGCTGCAGCCCGATTTACCCTT
GGATCCCCCTCTGACTTCTCTGGTGGCTCTCCAGGGGGCTGCCCTGGAGAAGAACTTGGCATCAACAGTATGGA
CTTGACACTCATTATCACCCAGGCAATCTCTTGCCACTCTCTAGATCCAGTGTCACTGATGAGAATTGGCTG
AGCCCCAGGCCAGCCTCAGGACCCTCATCAAGGCCACATCCCCCTGTGGGAAACGGAGGCACTCCAGTGCTGAA
GTTTGTATGCTGGGTCCCTTTCACCCCATCACTCACCTGTTCTTCCCTGAGTCACTCCCCAGGGGAAGTGTG
ACAGAAGATACGTGGCTCAATGCTTCTGTCCATGGTGGGTGAGGCCTTGGCCCTGCAGTTTTTCCATTTAGTAC
TGTGTAGAGACTGACATCCCTCTCAAAACAAGGAAAACCTTCTGAAGATCAAGCTGCCATACTACCAGGAAAATTA
GAGCTGTGTTTCAATGACCAAGGGAGTTTATCACCAGCCCGGGAGACTTCAATAGATGATGGCCTTGGATCTCAG
TATCCTTTAAAGAAAGATTTCATGTGGTGATCAGTTTTCTTTTCACTTCCCTTACCCTTACCTGGAGCAAACCAAAG
CCTGGCCACACCCCTATATTTGCGACATCTTCACTTACCTCCACTAGACTGGCCTTACCTAGCTCATTTTGGACAA
TGTGAAGTGAATAAGAGTGAACCTAAACTCATCATCGAGCCATTATGAAACTGAAGGTAGCCGAGGGGCA
GTAAAGCATCTACTGGGGGACATCTGTTGTGAAGCTCCTGGGCTATAACGAAAAGCCAATAAATCTACAAATG
TTTATTGGGACAGCAGATGATCGATATTTACGACCTCATGCATTTTACCAGGTGCATCGAATCACTGGGAAGACA
GTCGCTACTGCAAGCCAAGAGATAATAATTGCCAGTACAAAAGTTCTGGAATTCCTTCTTCTGAAAATAAT
ATGTCAGCCAGTATTGATTGTGCAGGTATTTTGAAGTCCGCAATTCAGATATAGAACTTCGAAAAGGAGAACT
GATATTGGCAGAAAAGATACTAGAGTACGACTTGTGTTTCTGTGTACACATCCACAGCCAGTGGAAGTCCCTT
TCTCTGCAGATAGCCTCTATACCCGTTGAGTGTCTCCAGCGGTCTGCTCAAGAACTTCTCATATTGAGAAGTAC
AGTATCAACAGTTGTTCTGTAAATGGAGGTGATGAAATGGTTGTGACTGGATCTAATTTCTTCCAGAATCCAAA
ATCATTTTTCTTGAAGGAGGACAAAGATGGACGACCTCAGTGGGAGGTAGAAGGGAAGATAATCAGGGAAAAATGT
CAAGGGGCTCAGATTGTCTTGAAGTTCTCCATATCATAACCCAGCAGTTACAGCTGCAGTGCAGGTGCACCTT
TATCTTTGCAATGGCAAGAGGAAAAAAGCCAGTCTCAACGTTTTACTTATACACAGTTTTGATGAAGCAAGAA
CACAGAGAAGAGATTGATTGTCTTCACTTCCATCTTTGCCTGTGCCTCATCTGCTCAGACCCAGAGGCCTTCC
TCTGATTCAAGGTGTTTACATGACAGTGTACTGTGAGGACAGAGAAGTTTGTATTTGCTCCATCCCAACATAT
GCATCCATGGTGACCTCATCCCATCTGCCACAGTTGCAGTGTAGAGATGAGAGTGTAGTAAAGAACAGCATATG
ATTCTTCTTCAATTGTACACCAGCCTTTTCAAGTACACCAACACCTCCTGTGGGGTCTTCTATCAGCCTATG
CAAATAATGTTGTGTACAATGGACCAACTTGTCTTCTTATTAATGCTGCCTCTAGTCAAGAATTTGATTAGTT
TTGTTTCAAGCAGGATGCAACTCTTCTGGTTTGTGAACTTGGCTGTCAACCACTGTCTATCCATACCATTTTCA
TCTTCAAATTCAAGGCTCAACAGGACATCTCTTAGCCCATACACCTCATTCTGTGCATACCTTGCCCTCATCTGCAA
TCAATGGGATATCATTGTTCAAATACAGGACAAAGATCTCTTCTTCTCCAGTGGCTGACCAGATTACAGGTGAG
CCTTCTGCTCTCAGTTACAACCTATTACATATGGTCTTCACTTCAAGGTCTGCTACAACAGCTTCCCCAGCAGCT
TCTCATCCCTTGGCTAGTTTACCGCTTCTGGGGCCACCATCTCCTCAGCTTCAAGCCTATGCCTTACCAATCTCCT
AGCTCAGGAAGTGCCTCATCACCGTCTCCAGCCACCAGAATGCATTCTGGACAGCACTCAACTCAAGCACAAAGT
ACGGGCCAGGGGGTCTTCTGACCTTCATCCTTAATATGTCACAGTTTGTGTGATCCAGCGTCATTTCCACCT
GATGGGGCAACTGTGAGCATTAAACCTGAACCAGAAGATCGAGAGCCTAACTTTGCAACCATTTGGTCTGCAGGAC
ATCACTTTAGATGATGACCAATTTATATCTGACTTGGAAACACCAGCCATCAGTTTCAAGCAGAGAAATGGCCTAAC
CACAGTGTGCTCTCATGTCCAGCTCCTTCTGGAGAATCTAGAGGTGAACGAGATAATTGGGAGAGACATGTCCC
AGATTTCTGTTTCCCAAGGAGCAGGGGTGAGCAGGAGGCTCCCTCCCGAGTCTGAGTCCCTGGATTTAGGAA
GATCTGATGGGCTCTAACAGTGCTTACTGCAGCCTTGTGTCCACCACCAACTTCTCAGCATGTTTCTCTCCTTGG

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FIGURE 4586B

ACCTTGGGTTTCCAACCTCTGCAGCCTTCAGGTCTGGGGCCAGGAGTGGGACCCACCATTTGTGGGGAAAGTAGCA
TTCCTCCACCTCAGGCCTTGGGTAGATTTGGCAAAGAAGCAGGAGCAGCATAGGCTGTTTGAGCTTTGGGGAAAT
GAACTTTGCTTTTTATATTTAACTAGGATACTTTTATATGATGGGTGCTTTGAGTGTGAATGCAGCAGGCTCTCT
TGTTTCCGAGGTGCTGCTTTTGCAGGTGACCTGGTTACTTAGCTAGGATTGGTGATTTGTACTGCTTTAIGGTCA
TTTGAAGGGCCCTTTAGTTTTTATGATAATTTTAAATAGGAACCTTTGATAAGACCTTCTAGAAGCC

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FIGURE 4587

MTTANCGAHDELDFKLVF'GEDGAPAPPPPGSRPADLEPDDCASIYIFNVDPPPSTLTTP'LC'LP'HHGLPSHSSVLS
PSFQLQSHKNYEGTCEIPESKYSPLGGPKPFECPSIQITSISP'NCHQELDAHEDDLQINDPEREFLE'RP'SRDHLY
LPLEPSYRESSLS'PSPASSISSRSWFSDASSCESLSHIYDDVDSELNEAAARFTLGSP'LTSPGGSPGGCPGEETW
HQQYGLGHSLS'PRQSPCHSPRSSVTDENWLS'PRPASGPSSRPTSPCGKRRHSSAEVCYAGSLSPHHSPVPSPGHS
PRGSVTEDTWNASVHGGSGLGPAVFPFQYCVETDIPLKTRKTS'EDQAAILPGKLELCSDDQGSLS'PARETSIDD
GLGSQYPLKKDSCGDQFLSVPS'PFTWSKPKPGHTPIFRTSSLPPLDWPLPAHFGQCELKIEVQPKTHHRAHYETE
GSRGAVKASTGGHPVVKLLGYNEKPINLQMF'IGTADDRYL'RP'AFYQVHRITGKTVATASQEI'IIASTKVLEIPL
LPENNMSASIDCAGILKLRNSDIELRKGETDIGRKNTRVRLVFRVHIPQPSGKVL'SLQIASIPVECSQ'RSAQELP
HIEKYSINSCSVNGGHEMVVTGSN'FLPESKII'FLEKGQDGRPQWEVEGKIIREK'CQGAHIVLEVPPYHNPAVTAA
VQVHFYLCNGKRKKSQSQRFTYTPVLMKQEHREEIDLSSVPSLPVPHPAQTQRPSSD'GCSHDSVLSGQ'RS'LICS
IPQTYASMTSSHL'PQLQCRDESVSKEQHMI'PSP'IVHQPFQVTPTPPVGSSYQPMQTNVVYNGPTCLPINAASSQ
EFDVLFQQDATLSGLVNLGCQPLSSIPFHSSNSGSTGHLLAHTPHSVHTLPHLQSMGYHCSNTGQ'RSLS'SPVAD
QITGQ'PSSQLQPI'ITYG'PSHSGSATTASPAASHPLASSPLSGPPSPQLQPM'PYQSPSSGTASSPSPATRMHSGQHS
TQAQSTGQGGLSAPSS'LICHSLCDPASFP'PDGATVSIKPEPEDREP'NFATIGLQDITLDDDQFISDLEHQPSGSA
EKWPNHSVLSCPAPFWRI

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FIGURE 4588A

GGCACGAGGGCACCATTGGATGCTTACTTTTCAGGTGAGCAGGACCCAGCCTGACTTGCCAGCTACCACTTATGAT
TCAGAGACTAGGAATCCTGTATCTGAAGAGTTGCAGGTGTCTAGTAGTTCTGATTCTGACAGTGACAGCTCTGCA
GAGTATGGAGGGGTTGTTGACCAGGCAGAGGAATCTGGAGCTGTTCATTTTAGAAGAGCAACTAGCAGGTGTCTCA
GCAGAGCAAGAAGTTACATGTATCGATGGAGGCAAGACCCTCCCCAAACAGCCATCTCCCCAGAAGTCTGAGCCT
CTGCTACCTTCTGCTTCTATGGATGAGGAAGAAGGGGACACTTGTACAATATGTCTGGAACAGTGGACCAATGCT
GGGGACCACCGGCTCTCAGCATTACGCTGTGGGCATCTCTTTGGGTATAGGTGCATTTCACGTGGCTTAAAGGA
CAAGTACGAAAAATGTCCCCAGTGCAACAAGAAAGCCAGGCACAGTGACATTGTCTGCTCTTTATGCCCGAACCCCTG
AGAGCTTTGGACACTAGTGAACAGGAGCGCATGAAAAGTTCCCTACTGAAGGAACAGATGCTAAGGAAACAGGCC
GAGTTAGAATCAGCACAGTGCCGACTCCAAGTGCAGGTCTCTACTGATAAGTGCCTAGGCTTCAAAGGCGTGTT
CAGGACTTGCAAAAACCTTACGTACATCAAAGTCAGAATTTACAGCAACCCAGGGGCTCCCAAGCATGGGTCTCTG
AGCTGCTCACCCCTCCAGCCAGGGCCAGCACAAGCACAAGTACCCTTCCAAAAGACCTTCACAGTATCTCAGGCA
GGAAACTGCCGGATCATGGCATACTGTGATGCTCTGAGCTGCCTGGTGATATCACAGCCTTCTCCTCAGGCCTCT
TTTCTCCAGGCTTTGGTGTTAAGATGTTGAGTACTGCCAACATGAAGAGCAGTCAGTACATTCCGATGCATGGC
AAACAGATCCGTGGACTGGCGTTTAGCAGTTACCTCAGAGGCTTGCTACTCTCTGCTTCCCTAGACAACACTATT
AAACTGACCAGCCTGGAGACAAATACCGTGGTCCAGACTTATAATGCTGGACGCTCTGTCTGGAGCTGTTGCTGG
TGTCTTGATGAGGCTAACTACATCTATGCTGGACTGGCCAATGGTTCAATTCTGGTATATGACGTGCGAAACACG
AGCAGTCATGTGCAGGAGTTAGTAGCTCAGAAAGCCAGATGCCCACTGGTCTCCCTGTCATACATGCCAGAGCT
GCCTCAGCTGCATTTCATATGGTGGGGTGCTGGCTGGAACCTTGGAGGATGCTTCATTCTGGGAACAGAAAATG
GACTTTTCTCATTGGCCTCATGTGCTGCCCTTGGAGCCAGGGGGCTGCATAGACTTTCAGACAGAGAACAGCTCC
CGGCACTGTCTTGACCTACAGGCCTGATAAAAATCACACCACCATAACGAAGTGTGCTGATGGAAATGTCCTAC
CGACTGGATGACACTGGAAATCCAATCTGCTCCTGCCAGCCTGTACATACATTTTTTGGAGGACCTACTTGCAAA
CTATTGACCAAAAAATGCCATTTTCCAAAGCCCAGAGAATGATGGCAACATCCTGGTGTGTACTGGGGATGAAGCA
GCAAAATCTGCCCTGCTGTGGGATGCTGCCAGTGGCTCGTTGCTCCAGGACCTACAGACCGATCAGCCTGTGTTG
GACATCTGCCCATTGAGGTGAACCGTAACAGCTACTTGGCTACCTTAACAGAGAAGATGGTCCACATCTATAAG
TGGGAGTCACTGTGGTCTCGAAAACCTTGAAGGCATGCTGCTGGTTAGATGTTGTTGCTAGCGCCTAGCAGCCCC
AAGCAAGATCCCTGTTTATTGTCTGCAGTCTAGAACATTGGGAATCATGGTTTGTGTTGCATTAGTATGATTCTAG
GACCCTAGGTCAGTACACTACAGATTGTGTATCTGTTATGTCCACTAAAAGAGTAATTGATGGGTACTTTAT
CTACATTATCCATTTCTTGGGTTTAAAGCCTTCATTAACCATTATTGTATGTTGGAAATCTTATTTTCTTTATT
TTCTGTGTGACTTTCTGGACCTTAGAGAGTGTCTCTCATCATCTAGGATGTGAGTGGGCATCAAGCATTCTCTG
GGGAATATGACATCCCATCTGAGTTGTCTCTCACTTAAGTATCCTTGAAGGGACTAACCATCGTCTTGGTACTG
ATTTGATGCAACGTAGATGTAAAAGAGTATTATTAGTTGAACACAAGAGGGCACTGTAGAACCTTGTGTCCGGT
TTATTTCTGACCTTGAAGGCTGACAATCTTTTAGTAACTTGTCTCATCTCCACACAAGTGTGTGATAGCACCT
GGGTGTGCTTTGTGGCAATAACACTTGTGTTCCAGGTGTGAAGTGTGGGACATTGGCAGGCCCAGTGATGGAAG
CAGCTAGTGAACGATTCCCTTTGCTAATGCCCTAGTGCATTAAAGTTTATTGCTTTGCGAAAGGTAAGGAAAGAGGC
CAGTTGTTTGAGCGGTGGGGAAGATTTGTTTTTCTAGCCAGCTTAGGATCTCAGGATTGGTTTTATCCAAGCT
AGTGCTTTGAAGAACTATCTCTTGCCAGGAAAAGATGAGTGATAGGTCAAAGCTTTTACTTGAGTCTCCCTA
GTGTCAGAGATCAGGAGAAAAGACATAAGAGAATTTACAAAAGCTATTTCAGACTGCTATTGAAAACATGAGAAGA
ACTTGTCTCCCATTTTGAGAGTTCCTATCTAAATAAAGCCAATTCCTCAGACTGAGGGGCTGTTCTTAAGTGTTT
TTTATACATTCCAGTTATCCAGTTAAAGCCTTCCCCATGTGAAGCTGATGTTTGATTCCAGTTTCTTTGATTG
CCTCCCTAACCTTTTCTAGGGCTCAGTTTGTATTTCTTTGCCTTGCTCAGACTACTTTGCCAACCCACTTCCAC
AACAGAATATGCTTCAAGATGTGGGCAGGTGCTGCTGTTTATGGGAGAAAATGGCTTAAACAGTCTGATTTTC
TCAAATGATTATTGAAGAGTTGTTATCGTTTTTATTATAAAACACTTCTGACCTGTCAATTCAAGAGCTGTTTCT
AGGATCTTTCTCTCCGGCAAGGGGTTGTTGCACTAGATTTCCCCAGAGTTCCAAGTTCTAGTTGTGCTTTTAAAT
GACCCTTTAAATATTTTAGGACATAATTTTTCTTTTTTAAATTTTTTGTAGAAATAGATGTTTCACTACGTTG
TCCAGGCTGGTCTTGACTCCTGGCCTCAAGCAATCCTCCACCTCAGCCTCCTAAAGTGCCAAAATTATAGGCG
TGAGCCACTGCACCCGGCCCCIATTTGAAGACGTCTTTTGTAAGCTAGCTTCTAGAACCTGAGAAAAGCTCTT
TTCTCAGAGGAGATACTCTTTTGATATGTTAATGATTAAAGAGTGGTTGCCAGGCCTAGTTTCACTGGCAGAAT
AGGATTGGAATTAAGAGCAGAACTCATCTGGCTTCAGCAGATTGCCACCAAGAGGATACAGGTGGTCAGGTCCT

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FIGURE 4588B

GGCTGGCTTTGTCTTTGGGCCTGGGCAGGCTTAGGATTTGACTTTCTTTGAAGTACCTGATGCTGATTGATTCCA
CTAATAGTAGGAAGCAAGAGACTTAAGTATGAGGGACGTTATGTGAATCTTAAGTCTTACCAGTCCTTGCATTAG
TACATTAAATTTGGATGTTTTGGAAGCAAATTCATACGATCGTGAGTGATTTCTCCAAAGAAAAAGCCTTGTC
CAGCCTGACCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAAGTGGGTGCAGTGGTGCGCATGCC
TG TAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCTGGGAGGCAGAGGTTGCAGTGAGTCG
AGATCGCGCCACTGCACTCCAGCCTCGGTGACAGAGCAAGACTCCATCTCAAAAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 4589

MKSSLLKEQMLRKQAELESAQCRLQLQVLTDKCTRLQRRVQDLQKLTSHQSQNLQQPRGSQAWVLS CSPSSQGGH
KHKYHFQKTFTVSQAGNCRIMAYCDALSCLVISQPSQASFLPGFGVKMLSTANMKSSQYIPMHGKQIRGLAFSS
YLRGLLLSASLDNTIKLTSLETNTVVQTYNAGRPVWSCWCLDEANYIYAGLANGSILVYDVRNTSSHVQELVAQ
KARCPLVSLSYMPRAASAAFPYGGVLAGTLEDASFWEQKMDFSHWPHVLPLEPGGCIDFQTENSSRHCLVTYRPD
KNHTTIRSVLMEMSYRLDDTGNPICSCQPVHTFFGGPTCKLLTKNAIFQSPENDGNILVCTGDEAANSALLWDAA
SGSLLQDLQTDQPVL D I C P F E V N R N S Y L A T L T E K M V H I Y K W E

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FIGURE 4590

ATGAACTTCACCACTCGCTCCACCTTCTCCACCAACTACCGGTCCCTGGGCTTTGTCCAGGCGCCAGCTACAGT
GCCCCGCCAGTCAGCAGCATGGCCAGCGTCTATGCAGGCACCAGGGGCTCTGGTTCCCTGGATCTCCATGTCCCAC
TCCGCCAGCTTCTGGGGCGGCATGGGGTCTGGGGGCCTGTCCGCGGGGATGGCTGGGGGTCTTGCAAGAATGGGA
GGCATCCAGAACAAGAAGGAGACCATGCAAAGCCTGAAGTACTGCCTGACCTCCTACCTGAACACAGTGAGGAAC
CTGGAGATGGAGAAGCTGGAAGCTAGAGAGCAAAATCCGGGAGCACCTGGAGAAGAAGGGACCCAGTTCAGAGAC
TGGAGCCGTTACTTCCAGACCATCAAGGACCTGAGGGCTCAGATCTTCGCAAATACTGTGGACAATGCCTGCATC
GTTCTGCAGATTGACAGTGCCCGTCTTGACAGCTGATGATTTTAGATCTGTGGAGAATGACATCCATGGGCTCTGC
AAGGTCATTGATGACACCACTGTCACTTGGCTGCAGCTGGAGACAGAGATCAAGGCTCGCAAGGAAGAGCTGCTC
TTCATGAAGAAGAACCACGGAGAGGAAGTAAAAGGCCTACAAGCCCAGATTGCCAGCTCTGGGTTGACCTTGGAG
GACCTCGCCAAGATCATGGCAGACATCTGGGCCCAATATGACAAGCTGGCTCGGAAGAACAGAGAGGAGCTGGAC
AAGTACTGGTCTCAGCAGATTGAGGAGAGCACACGGTGGTCACCACGCAGTCCGTCAAGGTTGGAGCTGCTGAG
ACGACACTCACGGAGCTGAGATATACAGTCCAGTCCTTGGAGACTGACCTGGACTCAATGAGAAAATCTGAAGGCC
AGCTTGGAGAACAGCCTGAGGGAGGTGGAGGCCCGCTACACCCTGCAGATGGAGCAGCTCAACGGGGATCCTGCTT
TACCTGGAGTCAGAGCTGGCACAGACCCGGGCAGAGGGTCTTTCTTACTGATGTGTTGCTCTTCTTCATGGCTC
GTGAAAATATTAGAGTCATCCAAGATTCTAAGTTCTTGAAGTCTGAGTCTGAGTCTTACTGTTGTGAACCTTTACACCCAG
GTTTGGAGACAGAAAGGAGCACCGCCAAGTGAGGCAGAGCAGTCTCAGAAACATAGGAAAATGGTGGGAAGAGAG
ATCAGCAACGTTAACTGGGTGTCAAGAAAACATACCGAGATTGAAGCCATCCACTTCTGCAGGAACACCGAAAAG
AAAGGTACAACGCTTGGGGAAAGACTGGATTTCATTAGGGACAGTGACAATACTGTTTGACATAG

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FIGURE 4591

MNFTTRSTFSTNYRSLGFVQAPSYSARPVSSMASVYAGTRGSGSWISMSHSASFWGGMGSGGLSAGMAGGLARMG
GIQNKKETMQSLKYCLTSYLN TVRNLEMENWKLESKIREHLEKKGPQFRDWSRYFQTIKDLRAQIFANTVDNACI
VLQIDSARLAADDFRSVENDIHGLCKVIDDTSVTWLQLETEIKARKEELLFMKKNHGEEVKGLQAQIASSGLTLE
DLAKIMADIWAQYDKLARKNREELDKYWSQQIEESTTVVTTQSVKVGAAETTLTELRYTVQSLETDLDSMRNLKA
SLENSLREVEARYTLQMEQLNGILLYLESELAQTRAEGSFLLMCCSSSWLVKTIRVIQDSKFLTQNLTVVNLYTQ
VWRQKGAPPSEAEQSQKHRKMVGREISNVNWVSRKHTEIEAIHF CRNTEKKGTTLGERLDFIRSDNTCLT

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FIGURE 4592A

ATAATGGCCGCTTTCAAGGTGTGGATTTTGGCTCCTTGAGCCTGTCTGAGCGAGGGGTGGCAGCGCCGGCGCCCC
AGAATCCGGGACAGAAGGGTCCCAAGAGTCGCGCTTGGTGAGAGAAATCCAGATCCTGTGATCGGGGACACCAG
TGAGGATGCCTCGATCCATCGATTGGAAGGCACTGATCTGGACTGTCTAGGTTGGTGGTCTTATTGCAAGTCCAA
AAGTGCGGCCAGCGAGCAGCATGTCTTCAAGGCTCCTGCTCCCCGCCCTTCATTACTGGGACTGGACTTGCTGGC
TTCCCTGAAACGGAGAGAGCGAGAGGAGAAGGACGATGGGGAGGACAAGAAGAAGTCCAAAGTCTCCTCTACAA
GGACTGGGAAGAGAGCAAGGATGACCAGAAGGATGCTGAGGAAGAGGGCGGTGACCAGGCTGGCCAAAATATCCG
GAAAGACAGACATTATCGGTCTGCTCGGGTAGAGACTCCATCCCATCCGGGTGGTGTGAGCGAAGAGTTTTGGGA
ACGCAGTCGGCAGAGAGAGCGGGAGCGGAGGGGAACATGGTGTCTATGCCTCGTCCAAAGAAGAAAAGGATTGGAA
GAAGGAGAAATCGCGGGATCGAGACTATGACCGCAAGAGGGACAGAGATGAGCGGGATAGAAGTAGGCACAGCAG
CAGATCAGAGCGAGATGGAGGGTCAGAGCGTAGCAGCAGAAGAAATGAACCCGAGAGCCCACGACATCGACCTAA
AGATGCAGCCACCCCTTCAAGGTCTACCTGGGAGGAAGAGGACAGTGGCTATGGCTCCTCAAGGCGCTCACAGTG
GGAATCGCCCTCCCGACGCTTCTATCGGGATTCTGAGCGGAGCCATCGGCTGTCCACTCGAGATCGAGACAG
GTCTGTGAGGGGCAAGTACTCGGATGACACGCTCTGCCAACTCCCTCCTACAAATATAACGAGTGGGCCGATGA
CAGAAGACACTTGGGGTCCACCCCGCTCTGTCCAGGGGCCGAGGAAGACGTGAGGAGGGCGAAGAAGGAATTC
ATTTGACACGGAGGAGGAGCGGCAGCAGTGGGAAGATGACCAGAGGCAAGCCGATCGGGATTGGTACATGATGGA
CGAGGGCTATGACGAGTTCCACAACCCGCTGGCCTACTCCTCCGAGGACTACGTGAGGAGGCGGGAGCAGCACCT
GCATAACAGAAGCAGAAGCGCATTTTCAAGCTCAGCGGAGACAGATCAATGAGGATAACGAGCGCTGGGAGACAAA
CCGATGCTCACCAGTGGGGTGGTCCATCGGCTGGAGGTGGATGAGGACTTTGAAGAGGACAACGCGGCCAAGGT
GCATCTGATGGTGCACAATCTGGTGCTTCCCTTTCTGGATGGGCGCATTGTCTTACCAAGCAGCCGGAGCCGGT
GATTCCAGTGAAGGATGCCACTTCTGACCTGGCCATCATTGCTCGGAAAGGCAGCCAGACAGTGCAGGAAGCAG
GGAGCAGAAGGAGCGCAAGAAGGCTCAGCACAAACACTGGGAACTGGCGGGGACCAAACCTGGGAGATATAATGGG
CGTCAAGAAGGAGGAAGAGCCAGATAAAGCTGTGACGAGGATGGGAAGGTGGACTACAGGACAGAGCAGAAGTT
TGCAGATCACATGAAGAGAAAGAGCGAAGCCAGCAGTGAATTTGCAAAGAAGAAGTCCATCCTGGAGCAGAGGCA
GTACCTGCCCATCTTTGCAAGTGCAGCAGGAGCTGCTCACTATTATCAGAGACAACAGCATCGTGATCGTGGTTGG
GGAGACGGGGAGTGGTAAGACCACTCAGCTGACGCAGTACCTGCATGAAGATGGTTACACGGACTATGGGATGAT
TGGGTGTACCCAGCCCCGGCGTGTAGCTGCCATGTCAGTGGCCAAGAGAGTCAAGTGAAGAGATGGGGGGAAACCT
TGGCGAGGAGGTGGGCTATGCCATCCGCTTTGAAGACTGCACTTCAGAGAACACCTTGATCAAATACATGACTGA
CGGGATCCTGCTCCGAGAGTCCCTCCGGGAAGCCGACCTGGATCACTACAGTGCCATCATCATGGACGAGGCCCA
CGAGCGCTCCCTCAACACTGACGTGCTCTTTGGGCTGCTCCGGGAGGTAGTGGCTCGGCGCTCAGACCTGAAGCT
CATCGTCACATCAGCCACGATGGATGCGGAGAAGTTTGTGCTCCTTTTTTGGGAATGTCCCCATCTTCCACATCCC
TGGCCGTACCTTCCCTGTTGACATCCTCTTCAAGCAAGACCCACAGGAGGATTACGTGGAGGCTGCAGTGAAGCA
GTCCTTGCAGGTGCACCTGTGCGGGGGCCCCCTGGAGACATCCTTATCTTATGCCTGGCCAAGAGGACATTGAGGT
GACCTCAGACCAGATTGTGGAGCATCTGGAGGAAGTGGAGAAGCGCGCTGCCCTGGCTGTGCTGCCCCATCTACTC
TCAGCTGCCTTCTGACCTCCAGGCCAAAATCTTCCAGAAGGCTCCAGATGGCGTTCCGAAGTGCATCGTTGCCAC
CAATATTGCCGAGACGTCTCTCACTGTTGACGGCATCATGTTTGTATCGATTCTGGTTATTGCAAATTAAGGT
CTTCAACCCAGGATTGGCATGGATGCTCTGCAGATCTATCCATTAGCCAGGCCAATGCCAACCAGCGGTCAGG
GCGAGCCGGCAGGACGGGCCAGGTCAGTGTTCAGGCTCTACACCCAGAGCGCCTACAAGAATGAGCTCCTGAC
CACCACAGTGCCCCGAGATCCAGAGGACTAACCTGGCCAACGTGGTGTGCTGCTCAAGTCCCTCGGGGTGCAGGA
CCTGCTGCAGTTCCACTTCATGGACCCGCCCCCGGAGGACAACATGCTCAACTCTATGTATCAGCTCTGGATCCT
CGGGGCCCTGGACAACACAGGTGGTCTGACCTCTACCGGGCGGCTGATGGTGGAGTTCCCGCTGGACCCCTGCCCT
GTCCAAGATGCTCATCGTGTCTGTGACATGGGCTGCAGCTCCGAGATCCTGCTCATCGTTTCCATGCTCTCGGT
CCCAGCCATCTTCTACAGGCCCAAGGGTCGAGAGGAGGAGAGTGATCAAATCCGGGAGAAGTTGCTGTCTCTGA
GAGCGATCATTGACCTACCTGAATGTTTACCTGCAGTGGAAGAACAATAATTACTCCACCATCTGGTGTAAACGA
TCATTTTATCCATGCTAAGGCCATGCGGAAGGTCCGGGAGGTGCGAGCTCAACTCAAGGACATCATGGTGCAGCA
GCGGATGAGCCTGGCCTCGTGTGGCACTGACTGGGACATCGTCAGGAAGTGCATCTGTGCTGCCTATTTCCACCA
AGCAGCCAAGCTCAAGGGAATCGGGGAGTACGTGAACATCCGCACAGGGATGCCCTGCCACTTGACCCCCACAG
CTCCCTTTTTTGAATGGGCTACACCCAGATTACATAGTGTATCACGAGTTGGTCATGACCACCAAGGAGTATAT
GCAGTGTGTACCGCTGTGGACGGGAGTGGCTGGCGGAGCTGGGCCCCATGTTCTATAGCGTGAAACAGGCGGG

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FIGURE 4592B

CAAGTCACGGCAGGAGAACCGTCGTCGGGCCAAAGAGGAAGCCTCTGCCATGGAGGAGGAGATGGCGCTGGCCGA
GGAGCAGCTGCGAGCCCGGCGGCAGGAGCAGGAGAAGCGCAGCCCCCTGGGCAGTGTCTAGGTCTACGAAGATCTA
CACTCCAGGCCGAAAGAGCAAGGGGAGCCCATGACCCCTCGCCGCACGCCAGCCCGCTTTGGTCTGTGAGCTGA
GGCTGTCCCCAGAGAGGATGGCAGCAGGTATTGGGTCTCAGCCTTCTGGCGGGAGCCCTGAGGCTGCGGACAAA
GCCCTTTCATCTGAGGACTTTCATCTGTGCATATCACGGCCCCCAGGGCAGTTCCTGCTGGACCAGACTCTCTG
GCAGAGGAGGTGGAGTTCTTCCATGCAGGAGCACGGCATGGCGGGAGCGGGGCTGCAGAGTATCCGAGGTGCTGC
CGGGGCAGCGGGAGGTGGCTGGACCCATCGCATCTAAACTGGCCCAGGACACTTGGTGTATGCGTGACTTGGCT
GTGGCTGTCTTTTTTAATCCTTGTGTAAAGCAGCAAAAAGACCTAAAGGGAATTGTAATTTGGTTATAATTCAG
GATTTGAAATAAATTTATTATTGTAAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4593

MGDTSEDASIHRLGTDLDCQVGGLICKSKSAASEQHVFKAPAPRPSLLGLDLLASLKRREREKDDGEDKKKSK
VSSYKDWEESKDDQKDAEEEGDQAGQNIRKDRHYRSARVETPSHPGGVSEEFWERSRQRERERREHGVYASSKE
EKDWKKEKSRDRDYDRKDRDERDRSRHSSRSERDGGSSERSRRNEPESPRHRPKDAATPSRSTWEEEDSGYGSS
RRSQWESPSPTPSYRDSERSHRLSTRDRDRSVRGKYSDDTLPLETPSYKYNEWADDRRHLGSTPRLSRGRGRREEG
EEGISFDTEERQQWEDDQRQADRDWYMMDEGYDEFHNPLAYSSEDYVRRREQHLHKQKQKRISAQRRQINEDNE
RWETNRMLTSGVVHRLEVDEDFEEDNAAKVHLMVHNLVPPFLDGRIVFTKQPEPVI PVKDATSDLAI IARKGSQT
VRKHREQKERKKAQHKHWELAGTKLGDIMGVKKEEPPDKAVTEDGKVDYRTEQKFADHMKRKSEASSEFAKKKSI
LEQRQYLP IFAVQQELLTIIRDNSIVIVVGETGSGKTTQLTQYLHEDGYTDYGMIGCTQPRRVAAMSVAKRVSEE
MGGNLGEEVGYAIRFEDCTSENTLIKYMTDGILLRESLREADLDHYSAIIMDEAHERSLNTDVLFGLLREVVAR
SDLKLIVTSATMDAEKFAAFFGNVPIFHIPGRTPFVDILFSKTPQEDYVEAAVKQSLQVHLSGAPGDILIFMPGQ
EDIEVTSQIVEHLEELLENAPALAVLP IYSQLPSDLQAKIFQKAPDGVRKCIVATNIAETSLTVDGIMFVIDSGY
CKLKVFNPRI GMDALQIYPISQANANQRSGRAGRTGPGQCFLYTQSAYKNELLTTTVPEIQRTNLANVVLLLKS
LGVQDLLQFHFMDPPPEDNMLNSMYQLWILGALDNTGGLTSTGRLMVEFP LDPALSKMLIVSCDMGCSSEILLIV
SMLSVP AIFYRPKGREEESDQIREKFVPESDHLTYLNVYLQWKNNNYSTIWCNDHFIHAKAMRKVREVRAQLKD
IMVQQRMSLASCGTDWDIVRKCICAAYFHQA AKLKGIGEYVNIRTGMPCHLHPTSSLFGMGYTPDYIVYHELVMT
TKEYMQCVTAVDGEWLAELGPMFYSVKQAGKSRQENRRRAKEEASAMEEEMALAEEQLRARRQEQEKRSPLGSVR
STKIYTPGRKEQGEPMTPRRTPARFGL

[illegible]

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FIGURE 4595

MSFLLPKLTSKKEVDQAIKSTA EKVLVLRFG RDEDPVCLQLDDILSKTSSDLSKMAAIYLV DVDQTAVYTQYFDI
SYIPSTVFFFNQHMKV DYGSPDHTKFVGSFKTKQDFIDLIEVIYRGAMRGKLIVQSPIDPKNIPKYDLLYQDI

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FIGURE 4596

CTCTTCCAGAGGCAAGACCAACCAAGATGAGTGCCCTGGGAGCTGTCATTGCCCTCCTGCTCTGGGGACAGCTTT
TTGCAGTGGACTCAGGCAATGATGTCACGGATATCGCAGATGACGGCTGCCCCGAAGCCCCCGAGATTGCACATG
GCTATGTGGAGCACTCGGTTGCTACCACTGTAAGAACTACTACAACTGCGCACAGAAGGAGATGGAGTATACA
CCTTAAATGATAAGAAGCAGTGGATAAATAAGGCTGTTGGAGATAAACTTCCTGAATGTGAAGCAGATGACGGCT
GCCCCAAGCCCCCGAGATTGCACATGGCTATGTGGAGCACTCGGTTGCTACCACTGTAAGAACTACTACAAAC
TGCGCACAGAAGGAGATGGAGTGACACCTTAAACAATGAGAAGCAGTGGATAAATAAGGCTGTTGGAGATAAAC
TTCCTGAATGTGAAGCAGTATGTGGGAAGCCCCAAGAATCCGGCAAACCCAGTGCAGCGGATCCTGGGTGGACACC
TGGATGCCAAAGGCAGCTTTCCCTGGCAGGCTAAGATGGTTTTCCACCATAATCTCACCACAGGTGCCACGCTGA
TCAATGAACAATGGCTGCTGACCACGGCTAAAAATCTCTTCTGAACCATTGAGAAAATGCAACAGCGAAAGACA
TTGCCCCTACTTTAACACTCTATGTGGGGAAAAAGCAGCTTGTAGAGATTGAGAAGGTTGTTCTACACCCTAACT
ACTCCCAGGTAGATATTGGGCTCATCAAACCTCAAACAGAAGGTGTCTGTTAATGAGAGAGTGATGCCCATCTGCC
TACCTTCAAAGGATTATGCAGAAAGTAGGGCGTGTGGGTTATGTTTTCTGGCTGGGGGCGAAATGCCAATTTTAAAT
TTACTGACCATCTGAAGTATGTCATGCTGCCTGTGGCTGACCAAGACCAATGCATAAGGCATTATGAAGGCAGCA
CAGTCCCCGAAAAGAAGACACCGAAGAGCCCTGTAGGGGTGCAGCCATACTGAATGAACACACCTTCTGTGCTG
GCATGTCTAAGTACCAAGAAGACACCTGCTATGGCGATGCGGGCAGTGCCTTTGCCGTTACGACCTGGAGGAGG
ACACCTGGTATGCGACTGGGATCTTAAGCTTTGATAAGAGCTGTGCTGTGGCTGAGTATGGTGTGTATGTGAAGG
TGACTTCCATCCAGGACTGGGTTGAGAAGACCATAGCTGAGAACTAATGCAAGGCTGGCCGGAAGCCCTTGCTG
AAAGCAAGATTTGAGCCTGGAAGAGGGCAAAGTGACGGGAGTGACAGGAGTGGATGCGATAAGATGTGGTTTG
AAGCTGATGGGTGCCAGCCCTGCATTGCTGAGTCAATCAATAAGAGCTTTCTTTTGACCCA

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FIGURE 4597

ATGCTGTCTGTGTGTGTCTCCGCGGCCGTAGCCCGTGACCTCACTCGTAAGGAAGGAGGTATAGTGAAGAGGACA
GGAACCATTTGTGGACGTTCCAGTCGGTGAGGAGCTGTTGGGTCGTGTAGTTGATGCCCTTGGAATGCTATTGAT
GGAAAGGGTCCAATGGGTTCCAAGACCCATAAAATCATTTCCTCGAACTTCAGTGTGGGAACCAATGCCGACTGGC
ATTAAGGCTGTGGATAGCTTGGTGCCAATTGGTTCGTGGTCAGCATGAGCTCATTATTGGTGACCGAAGGACTGGG
AAAACCTCAATTGCTATTGACACAATCATTAAACCAGAAACATTTCAATGATAGATCTGAAGAAAAGAAGAAGCTG
TACTGTATCTATGTTGCTATTGGTTCGAAAGAGATCCACTGTTGCTCAGTTGGTGAAGAGACTTACAGATGCAGAT
GCCGTGAAGTACACCACTGTGGTGTGAGCTATGGCCTCAGATGCTGCCCTACTTCAGTACCTGGCTCCTTACTCT
GACTGTTCCATGGGAGAGTATTTTAGAGACGATGGCAAATATACTTTGATCATCTATGACGACTTATCCAAACAG
GCTGTGCGCTTACTGTGAGATGTCTCTGTTGCTCCACCGACCCCCCTGGTCGACTATGAAGCAGGCGGCAGGTACC
ATGAAGCTGGAATTGGCTCAGGATCGTGAGGTTGCTGCTTTTGCCAGTTTGTTCTGACCTCAATGCTCCCACT
CAACAACCTATTGAGTCGCGGTGTGCGTCTAACTGAGTTGCTGAAGCAAGGACAGTATCCTCCCATGGTTACTGAA
CAACAAGTGGCTGTTATCTGTGCGGGTGGAGAGAATATAGAGGACATTCCAAAGGAAGTGCTGACAGACTGCGCC
CACCTTGTGAAGGCCAATAGCACTCAAGGCTGCAAGAACAACGTTAATGTGGTAAATACTCCACGGTCTAACCTG
AAGAAAACAGCTGACGTGGATGTGAGGCAGATAGGCTTTCACAGGCAGAAGGATGTAAAAATTGTGACAATGGAG
AAGAAAAGAGGATTCCTAGCTCATATTTGGAACAAGGAAGTTCAAGATCTCATCCGGGACTATCTGGAAGAAGGA
AAGAAGTGGTGGATTGGGCAAAATGTAATGCCATTGAAAAAGCATCAAGACAACAAATACCCAGCAGACGTTGCA
GCCAACGGGCCCCCAAAGCCCCTCAGCTGCACCTACCTGTCCAGAACTTCATTTCGGATCTCATCCAAAGGGGAC
AAGTGCTTACTGAAATACTATTTTCAATTTGCCAGACTGGTGACTTTTTGGACGGAGATGCCCATATGAAAGAAAT
GGAAATAATTCCATTTGTACCAGAGACACAAGAAGACAAAAAGAGGAGTTGCAATAGCAAGAGACAAATGCC
CCAGACTTTCAGGATCATGTGATTCTTGCCAAAGAAATAAAAGCAAAATCATTTTATTCCCAGTGGATTTCGGAT
GAAACCGGTGATAAAATCAGGTACAACCTCCAAGAGGAGACACTGGAGAACAGGCATGCTGGGTCTGTAA

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FIGURE 4598

MLSVCVSAAVARDLTRKEGGIVKRTGTIVDVPVGEELLGRVVDALGNAIDGKGPMGSKTHKIIPRTSVWEPMP
IKAVDSLVP IGRGQHELIIGDRRTGKTSIAIDTIINQKHFNDRSEEKKKLYCIYVAIGRKRSTVAQLVKRLTDAD
AVKYTTVVSAMASDAALLQYLAPYSDCSMGEYFRDDGKYTLIIYDDLQAVAYCQMSLLLHRPPWSTMKQAAGT
MKLELAQDREVAFAQFGSDLNAPTQQLLSRGVRLTELLKQGQYPPMVTEQQVAVICAGGENIEDIPKEVLTDCA
HLVKANSTQGCKNNVNVVNTFRSNLKKTADVDVRQIGFHRQKDVKIVTMEKKRGFLAHIWNKEVQDLIRDYLEEG
KKWWIGQNVMP LKKHQDNKYPADVAANGPPKPLSCTYLSRNFIRISSKGDKCLLKYYFICQTGDFLDGDAHYERN
GNNSHLYQRHKKTKRGVAIARDKMPPDFQDHVIPGQEIKAKSFYSPVDSDETGDKIRYNSKRRHWRTGMLGL

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FIGURE 4599

CTGTGGCTGGCCTCCCCGCGCCAGAGCGAAATTAAGGGCATGCCCCAGCAGCTGACTCAGTCGGCGTGGCGCT
TCCCCAACGTCTGCCGTGCCCCGCGCGGGGAAGTAGTCCCCGGCCGCGCCGACTCCAAAGGAAACCGAGGGAG
GGTGCCCCGAGTCAGCGCGTGGGTCCCGGCAGCGGCGATCGCGCAGCCAATCCCTGGAAAGGAGGGCGTGGCTAT
ATCGGCCCCGTGGATCCCTCCGCCCCGCGCTTGTTGTGCTGAGGCCGAGGGAGTCGCCATTTTGGATGGTGAACCC
TGAAGTCGGTGTCTGCTGCGTTACGGCAGGATTCGGTTAGGAGGAACAGCACAGCATGCTGGGCTCTGGATTTA
AAGCTGAGCGCTTAAGAGTGAATTTGAGATTAGTCATAAATCGCCTTAAACTATTGGAGAAAAAGAAAACGGAAC
TGGCCAGAAAGCAAGGAAGGAGATTGCTGACTATCTGGCTGCTGGGAAAGATGAACGAGCTCGGATCCGTGTGG
AGCACATTATCCGGGAAGACTACCTCGTGGAGGCCATGGAGATCCTGGAGCTGTACTGTGACCTGCTGCTGGCTC
GGTTTGGCCTTATCCAGTCTATGAAGGAACTAGATTCTGGTCTGGCTGAATCTGTGTCTACATTGATCTGGGCTG
CTCCTCGACTCCAGTCAGAAGTGGCTGAGTTGAAAATAGTTGCTGATCAGCTCTGTGCCAAGTATAGCAAGGAAT
ATGGCAAGCTATGTAGGACCAACCAGATTGGAACCTGTGAATGACAGGCTAATGCACAAGCTGAGTGTGGAAGCCC
CACCCAAAATCCTGGTGGAGAGATACCTGATTGAAATGCAAAGAATTACAACGTACCCTATGAACCTGACTCTG
TGGTCATGGCAGAAGCTCCTCCTGGGGTAGAGACAGATCTTATTGATGTTGGATTACAGATGATGTGAAGAAAG
GAGGCCCTGGAAGAGGAGGGAGTGGTGGCTTCACAGCACCAGTTGGTGGACCTGATGGAACGGTGCCAATGCCCA
TGCCCATGCCCATGCCTATGCCATCTGCAAATACGCCCTTCTCATATCCACTGCCAAAGGGACCAGTAGATGACA
TTAATGCTGATAAGAATATCTCTTCTGCACAGATTGTTGGTCTGGACCCAAGCCAGAAGCCTCTGCAAAGCTTC
CTTCCAGACCTGCAGATAACTATGACAACCTTTGTCTACCAGAGTTGCCATCTGTGCCAGACACACTACCAACTG
CATCTGCTGGTGCCAGCACCTCAGCATCTGAAGACATTGACTTTGATGATCTTTCCCGGAGGTTTGAAGAGCTGA
AAAAGAAAACATAGGTCTCTTAAACCAGGCAACTTTCACGTTTTGGGAGTTGAGACTGAGCAATTTCTCCTTGTA
ACAAAGAATCTCCATGAAATTCTGTTTCATCTGTAAACCGTCACTCAGCACAACACTCCCTCTGGGCTCTCTTCC
TGCTCCTCCAGATTCTGCTGCTTTCCAGTTCTCTGTTGATCCTGAGACTAACAATTGGAGACTGAGGCCAGAGCA
ACTGGCTCCTGGCAGCTGTGCTTGTCCGTTTCTGTGAGAGTGATCCCAGGTTTCTCCTGGCCCGTCCCATGGT
CCCTCCACAGGAGTGTGAGAGGATGGGGGAAGCACTGTGGGAAGACCACCAAAGATGGCTGGACAGTGGGAGAGA
GCACGTTGTGAAGCATCCCAGCCTCGTGTTGAGGTTCCAGACTTAGAAACAGACCCCTCTGTACAGGGGGATTGT
GGTGAGTGAGAATCAAGGCCACCTTGTGTGTTTTCTCACTCTCGAATGCAAGTGGGAGAGGGAAAATGACTCGGG
ACGCCATTGTAACGGTTCCTGGAAGCTGGGCCCTCTCATTGGCATATACAGTACTCCTCGCTGCAGGGCACTGTC
CCACCGGGATCCAGTTGCAAAGTTTGTCTTGACAGTTGAAGGCCTCGCTTAGTTGTACTGGATTCTCAGGGAGCC
CTCTGTGGCCTTTTGCTTTGCGTGCTGTTTCCCTTGTACCAGAGGGCGGCACCGTGGAAATTTCTGTTTTCCCTGT
AGCATATTGTGTTGGATTGCATTACTGGCAGAGAAAGGACAAGGTGCCATTCAAGTCCTAGGGTGGGCTTCCAGC
TGCCCTAATAGAAGTACTCAAGTCTTTTGGGTAGTGAGCTGGAAAGCCTACAGGAAAAGAGGGGTACCTGTTTTTC
ATTTGAAAACCTTGATTGATGGAACCTTTAAACTAATCTCAGAAAAATTTTGGTGCCCATGCAGCTGTAGTTG
TTCACTGCTTTCTGGATGGATGGGACTCTTATGTCATAACTTCTGTTACTCCTTTGGCCCATAGCTAAGGTCAT
CCTTCCCCACAGGGGTGGCTTTGGGATTGGATGATACAGCTTTTGCTTCTGTGTAGTATACCTGTACATACTTGT
TTCAGGCAGCCTTTCTTTAATGTTTTAGTTGGTTTGTATTCTGTAGCTCAGTAGCTGCTAATAAAGTTAAAGAT
CCTGTG

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FIGURE 4600A

CGGCGCTGAGTGACCCGAGTCGGGACGCGGGCTGCGCGCGCGGGACCCCGAGCCCAAACCCGGGGCAGGCGGGC
AGCTGTGCCCGGGCGGCACGGCCAGCTTCCTGATTTCTCCCGATTCTTCTTCTCCCTGGAGCGGGCCGACAATG

TCCACCACGGTCAATGTAGATTCCCTTGCGGAATATGAGAAGAGCCAGATCAAGAGAGCCCTGGAGCTGGGGACG
GTGATGACTGTGTTTCACTTCCGCAAGTCCACCCCGAGCGGAGAACCGTCCAGGTGATCATGGAGACGCGGCAG
GTGGCCTGGAGCAAGACCGCTGACAAGATCGAGGGCTTCTTGATATCATGGAAATAAAAGAAATCCGCCAGGG
AAGAACTCCAAGATTTTCGAGCGAGCAAAAGCAGTTCCGCAGAAAGAAGACTGCTGCTTCACCATCCTATATGGC
ACTCAGTTCTGCTCCTCAGCACGCTCAGCTTGGCAGCTGACTCTAAAGAGGATGCAGTTAACTGGCTCTCTGGCTTG
AAAATCTTACACCAGGAAGCGATGAATGCGTCCACGCCACCATTATCGAGAGTTGGCTGAGAAAGCAGATATAT
TCTGTGGATCAAACCAGAAGAAACAGCATCAGTCTCCGAGAGTTGAAGACCATCTTGCCCTGATCAACTTTAA
GTGAGCAGTGCCAAGTTTCTTAAAGATAAGTTTGTGGAAATAGGAGCACACAAAGATGAGCTCAGCTTTGAACAG
TTCCATCTCTTCTATAAAAAAATTATGTTTGAACAGCAAAAATCGATTCTCGATGAATTCAAAAAGGATTCTGTC
GTGTTTCTCTTGGGGAACACTGACAGGCCGGATGCCTCTGCTGTTTACCTGCATGACTTCCAGAGGTTTCTCATA
CATGAACAGCAGGAGCATTGGGCTCAGGATCTGAACAAAGTCCGTGAGCGGATGACAAAGTTCATTGATGACACC
ATGCGTGAAACTGCTGAGCCTTCTTGTGTTGTGGATGAGTTCTCACGTACCTGTTTTACGAGAAAACAGCATC
TGGGATGAGAAGTATGACGCGGTGGACATGCAGGACATGAACAACCCCTGTCTCATTACTGGATCTCCTCGTCA
CATAACACGTACCTTACAGGTGACCAGCTGCGGAGCGAGTCGTCCCAGAAAGCTTACATCCGCTGCCTGCGCATG
GGCTGTGCTGCTGATTGAACTGGACTGCTGGGACGGGCCGATGGGAAGCCGGTCATCTACCATGGCTGGACGCGG
ACTACCAAGATCAAGTTTTCAGCAGCTCGTGCAGGCCATCAAAGACCACGCCTTTGTTACCTCGAGCTTCCAGTG
ATCCTGTCCATCGAGGAGCACTGCAGCGTGGAGCAACAGCGTCACATGGCCAAGGCCTTCAAGGAAGTATTTGGC
GACCTGCTGTTGACGAAGCCCACGGAGGCCAGTGTGACCAGCTGCCCTCGCCAGCCAGCTGCGGGAGAAGATC
ATCATCAAGCATAAGAAGCTGGGCCCCGAGGCGATGTGGATGTCAACATGGAGGACAAGAAGGACGAACACAAG
CAACAGGGGGAGCTGTACATGTGGGATTCCATTGACCAGAAATGGACTCGGCACTACTGCGCCATTGCCGATGCC
AAGCTGTCTTTCAGTGATGACATTGAACAGACTATGGAGGAGGAAGTGCCCCAGGATATACCCCTACAGAATA
CATTTTGGGGAGAAATGGTTCCACAAGAAGGTGGAGAAGAGGACGAGTGCCGAGAAGTTGCTGCAGGAATACTGC
ATGGAGACGGGGGCAAGGATGGCACCTTCTGTTTGGGAGAGCGAGACCTTCCCCAATGACTACACCTGTCC
TTCTGGCGGTGAGGCCGGTCCAGCACTGCCGATCCGCTCCACCATGGAGGGCGGGACCTGAAATACTACTTG
ACTGACAACCTCACCTTACAGCAGCATCTATGCCCTCATCCAGCACTACCGCGAGACGCACCTGCGCTGCGCCGAG
TTCGAGCTGCGGCTCACGGACCCTGTGCCCAACCCCAACCCCAACAGAGTCCAAGCCGTGGTACTATGACAGCCTG
AGCCGCGGAGAGGACAGAGGACATGCTGATGAGGATTCCCCGGGACGGGGCTTCTGATCCGGAAGCGAGAGGGG
AGCGACTCCTATGCCATCACCTTACGGGCTAGGGGCAAGGTAAAGCATTGTGCGATCAACCGGGACGGCCGGCAC
TTTGTGCTGGGGACCTCCGCCTATTTTGAGAGTCTGGTGGAGCTCGTCAGTTACTACGAGAAGCATTCACTCTAC
CGAAAGATGAGACTGCGCTACCCCGTGACCCCGAGCTCCTGGAGCGCTACAATATGGAAAGAGATATAAACTCC
CTCTACGACGTCAGCAGAATGTATGTGGATCCCAAGTGAATCAATCCGTCCATGCCCTCAGAGAACCGTGAAAGCT
CTGTATGACTACAAAGCCAAGCGAAGCGATGAGCTGAGCTTCTGCCGTGGTGCCCTCATCCACAATGTCTCCAAG
GAGCCCGGGGGCTGGTGGAAAGGAGACTATGGAACCAGGATCCAGCAGTACTTCCCATCCAACACGTCGAGGAC
ATCTCAACTGCAGACTTCGAGGAGCTAGAAAAGCAGATTATTGAAGACAATCCCTTAGGGTCTCTTTGCAGAGGA
ATATTGGACCTCAATACCTATAACGTCGTGAAAGCCCTCAGGGAAAAAACCAGAAGTCTTTGTCTTCATCCTG
GAGCCCAAGCAGCAGGGCGATCCTCCGGTGGAGTTTGCCACAGACAGGGTGGAGGAGCTCTTGAGTGGTTTCAG
AGCATCCGAGAGATCACCTGGAAGATTGACACCAAGGAGAACAACATGAAGTACTGGGAGAAGAACCAGTCCATC
GCCATCGAGCTCTCTGACCTGGTTGTCTACTGCAAACCAACCAGCAAAACCAAGGACAACCTAGAAAATCCTGAC
TTCCGAGAAATCCGCTCCTTTGTGGAGACGAAGGCTGACAGCATCATCAGACAGAAGCCGTCGACCTCCTGAAG
TACAATCAAAGGGCCTGACCCGCTTACCCAAAGGGACAAAGAGTTGACTCTTCAAACACGACCCCTTCCGC
CTCTGGCTGTGCGGTTCTCAGATGGTGGCACTCAATTTCCAGACGGCAGATAAGTACATGCAGATGAATCACGCA
TTGTTTTCTCTCAATGGGCGCACGGGCTACGTTCTGCAGCTGAGAGCATGAGGACAGAGAAATATGACCCGATG
CCACCCGAGTCCAGAGGAAGATCCTGATGACGCTGACAGTCAAGGTTCTCGGTGCTCGCCATCTCCCCAACTT
GGACGAAGTATTGCCTGTCCCTTTGTAGAAGTGGAGATCTGTGGAGCCGAGTATGACAACAACAAGTTCAAGACG
ACGGTTGTGAATGATAATGGCCTCAGCCCTATCTGGGCTCCAACACAGGAGAAGGTGACATTTGAAATTTATGAC
CCAAACCTGGCATTCTGCGCTTTGTGGTTTATGAAGAAGATATGTTTCAGCGATCCCAACTTCTTGCTCATGCC

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FIGURE 4600B

ACTTACCCCATTTAAAGCAGTCAAATCAGGATTCAGGTCCGTTCCCTCTGAAGAATGGGTACAGCGAGGACATAGAG
CTGGCTTCCCTCCTGGTTTTCTGTGAGATGCGGCCAGTCCTGGAGAGCGAAGAGGAACCTTACTCCTCCTGTGCGC
CAGCTGAGGAGGCGGCAAGAAGAACTGAACAACCAGCTCTTCTGTATGACACACACCAGAACTTGCGCAATGCC
AACCGGGATGCCCTGGTTAAAGAGTTCAGTGTTAATGAGAACCAGCTCCAGCTGTACCAGGAGAAATGCAACAAG
AGGTTAAGAGAGAAGAGAGTCAGCAACAGCAAGTTTTACTCATAGAGCTGGGGTATGTGTGTAAGGGTATTGTG
TGTGTGCGCATGTGTGTTTGCATGTAGGAGAACGTGCCCTATTACACTCTGGGAAGACGCTAATCTGTGACATC
TTTTCTTCAAGCCTGCCATCAAGGACATTTCTTAAGACCCAACTGGCATGAGTTGGGGTAATTTCTATTATTTT
CATCTTGGACAACCTTTCTTAATTATATTCTTTATAGAGGATTCCCCAAAATGTGCTCCTCATTTTTTGGCCTCTC
ATGTTCCAAACCTCATTGAATAAAAGCAATGAAAACCTTG

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FIGURE 4601

MSTTVNVDSLAEYEKSQIKRALELGTVMTVFSFRKSTPERRTVQVIMETRQVAWSKTADKIEGFLDIMEIKEIRP
GKNSKDFERAKAVRQKEDCCFTILYGTQFVLSTLSLAADSKEDAVNWLSGLKILHQEAMNASTPTIIESWLRKQI
YSVDQTRRNSISLRELKILPLINFKVSSAKFLKDKFVEIGA HKDELSEFQFHLFYKKLMFEQQKSILDEFKKDS
SVFILGNTDRPDASAVYLHDFQRFLIHEQQEHWAQDLNKVRERMTKFIDDTMRETAEPFLFVDEFLLTYLFSRENS
IWDEKYDAVDMQDMNPLSHYWISSSHNTYLTGDLRSESSPEAYIRCLRMGCRCIELDCWDGPDGKPVIIYHGWT
RTTKIKFDDVVQAIKDHAFTVSSFPVILSIEEHCSVEQQRHMAKAFKEVFGDLLLTKEASADQLPSPSQLREK
IIIKHKKLGPRGDVDVNMEDKKDEHKQQGELYMWDSIDQKWTRHYCAIADAKLSFSDDIEQTMEEVPQDIPPE
LHFGEKWFHKKVEKRTSAEKLLQEYCMETGGKDGTFVLVRESETFPNDYTLSEFWRSGRVQHCRIRSTMEGGTLKYY
LTDNLTFSSIIYALIQHYRETHLRCAEFELRLTDPVPNPNPHEKSPWYYDSLSRGEAEDMLMRIPRDGAFLIRKRE
GSDSYAITFRARGKVKHCRINRDGRHFVLGTSAYFESLVELVSYYEKHSLYRKMLRYPVTPELLERYNMERDIN
SLYDVSRMYVDPSEINPSPMPQRTVKALYDYKAKRSELSFCRGALIHNVSKPEGGWKGDYGTRIQQYFPSNYVE
DISTADFEELKQIIEDNPLGSLCRGILDNLNTYNVVKAPQGKNQKSFVFILEPKQQGDPPVEFATDRVEELFEWF
QSIREITWKIDTKENNMKYWEKNQSI AIELSDLVVYCKPTSKTKDNLENPDFREIRSFVETKADSIIRQKPVDLL
KYNQKGLTRVYPKGQRVDSSNYDPFRLWLCSQMVALNFQTADKYMOMNHALFSLNGRTGYVLQPEMRTEKYDP
MPPEQRKILMTLTVKVLGARHLPLKGRSICPFVEVEICGAEYDNNKFKTTVVNDNGLSPIWAPTQEKVTFEIIY
DPNLAFLRFVVYEEDMFSDPNFLAHATYPIKAVKSGFRSVPLKNGYSEDIELASLLVFCEMRPVLESEEEELYSSC
RQLRRRQEELNNQLFLYDTHQNLNRNANRDALVKEFSVNENQLQLYQEKCNKRLREKRVSNKSFYS

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FIGURE 4602

GGGCGGGCCCGCACCCCTGCGAACATGGCGCTGCGAGTGGTGCGGAGCGTGCGGGCCCTGCTCTGCACCCCTGCGC
GCGGTCCCGTTACCCGCCGCGCCCTGCCCCGAGGCCCTGGCAGCTGGGGGTGGGCGCCGTCCGTACGCTGCGC
ACTGGACCCGCTCTGCTCTCGGTGCGTAAATTCACAGAGAAACACGAATGGGTAAACAACAGAAAATGGCATTGGA
ACAGTGGGAATCAGCAATTTTGCACAGGAAGCGTTGGGAGATGTTGTTTATTGTAGTCTCCCTGAAGTTGGGACA
AAATTGAACAAACAAGATGAGTTTGGTGCTTTGGAAAGTGTGAAAGCTGCTAGTGAACCTCTATTCTCCTTTATCA
GGAGAAGTAACTGAAATTAATGAAGCTCTTGCAAGAAATCCAGGACTTGTAACAAATCTTGTTATGAAGATGGT
TGGCTGATCAAGATGACACTGAGTAACCCTTCAGAACTAGATGAACTTATGAGTGAAGAAGCATATGAGAAATAC
ATAAAATCTATTGAGGAGTGA¹AAATGGAACCTCTAAATAAACTAGTATGAAATAACGCAAGCCAGCAGAGTTGTC
TTAAATTAGTGGTGGATAGAAGACTTAGAATAGAACTTTTAGTATTACCGATGGGGAAAAAAAAAACTACTGTTA
ACACTGCTAATGAAAGAAAATGCCCTTTAACTTTCTAATGATTATAGATAAATATAATATGCGTCTTTTTTCACAA
TATCCTATGATTTTTTAGACTAGGCTCTAGTGTTTCAAGAAATTCATGAAATTATCCATGGTAAAACTAGTTATAAAA
ATTACATAATTCAAAGATAACATTGTTATTCTTAAGCCTTATATAATATTGTAACCTTGCATGTATCCATACCTGG
ATTTGGGATGAAATACTTAATGATCTTTCCATTGGAAATAACTGGAA²GTGAAGAGGTTTTTGTTGCTTGTACAGTG
TCAGATGAGGAACACCCTATCTTAATTTTTCGATACTGCATTGCTGGTGCTATTTTTTATACAGTGAAGCAA
CAGCTTTGCAGCAAATAATAAAATACTTCTTCGTT

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FIGURE 4603

MALRVVRSVRALLCTLRVPLPAAPCPPRPWQLGVGAVRTLRTGPALLSVRKFTKHEWVTENGIGTVGISNFA
QEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEVTEINEALAENPGLV NKSCYEDGWLIKMTLS
NPSELDELMSEEAYEKYKSIEE

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FIGURE 4604

ACGGTGGAGCGGTGGAGGGCGTCACTGGGTTTCGGCGTCTGGCAAGCGGTTTCAGCTGTCTGCTCCCTAGCAGCCG
GCCTTCGGGTCGGGCGTCTCCGCGGCTACTGCCGCTTCAGTTCTCCCGGTGTGGCCACGAGTCGGGTTGCACTGC
TGTGATCCATCCTCATCTCCTAAAGATGCATCCTGACTTATCTCCACACTTGCACACTGAAGAATGCAACGTCTT
GATTAACCTTGCTTAAGGAATGTCACAAAAATCACAAACATTCTGAAATTTTTTGGTTATTGTAATGATGTTGATCG
GGAGTTGAGAAAATGCCTGAAGAATGAGTACGTAGAAAACAGGACCAAGAGCAGGGAGCATGGCATTGCAATGCG
AAAGAACTTTTTAATCCTCCAGAGGAATCCGAAAAATAAATTGTATTTTCACTCGATGCCTTGGCTGAGAGAAG
ACCTAAAGACTCTGGGTTGATACCTGAAAGAATCCTGTCTTATTTGGTCTCCATAATCCTTTGAATGGAAAGTGA
CCTGTGAGAGATTGAACCATGGAGAAATATGAAAACCTGGATTCTGAGTATTTGTTGGGCAGGGCGTTTAGTAC
TGTCTCCCCTTTACCAGCAAACCTGACTTCACCATGTTTATTCCTTTGCCTACAACCAGTTAATATCTGAGTAA
CTTATCTCCTTCAATAAAATAATTTAAATAAAAAAAAAAAAA

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FIGURE 4605

MHPDLSPHLHTEECNVLINLLKECHKNHNI LKFFGYCNDVDREL RKCLKNEYVENRTKSREHG IAMRKKLFNPPE
ESEK

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FIGURE 4606

GCGCAGGCGCGGCGGCCGATGCGAGTGTGTATGTGCGGGCGAGAAGATGGCGGCGGCGGGGGAAGCAGCGTGAGC
AGCCGGAGGATCGCGGAGTCCCAATGAAACGGGCAGCCATGGCCCTCCACAGCCCCGAGTATATTTTTGGAGATT
TTAGCCCTGATGAATTCAATCAATTCTTTGTGACTCCTCGATCTTCAGTTGAGCTTCCTCCATACAGTGGAACAG
TTCTGTGTGGCACACAGGCTGTGGATAAACTACCTGATGGACAAGAATATCAGAGAATTGAGTTTGGTGTCTGATG
AAGTCATTGAACCCAGTGACACTTTGCCGAGAACCCCCAGCTACAGTATTTCAAGCACACTGAACCCTCAGGCCC
CTGAATTTATTCTCGGTTGTACAGCTTCCAAAATAACCCCTGATGGTATCACTAAAGAAGCAAGCTATGGCTCCA
TCGACTGCCAGTACCCAGGCTCTGCCCTCGCTTTGGATGGAAGTTCTAATGTGGAGGCGGAAGTTTGGAAAATG
ATGGTGTCTCAGGTGGTCTTGGACAAAGGGAGCGTAAAAAGAAGAAAAAGCGGCCACCTGGATATTACAGCTATT
TGAAAGATGGTGGCGATGATAGTATCTCCACAGAAGCCCTGGTCAATGGCCATGCCAATTCAGCAGTCCCGAACA
GTGTCAGTGCAGAGGATGCAGAATTTATGGGTGACATGCCCCCGTCAGTTACGCCCAGGACTTGTAAACAGCCCCC
AGAACTCCACAGACTCTGTCACTGACATTGTGCCTGACAGTCTTTTCCCCGGAGCACTCGGCAGTGACACCAGGA
CTGCAGGGCAGCCAGAGGGGGGGCCCCGGGGCTGATTTTGGTCAGTCTGCTTCCCTGCAGAGGCTGGCAGAGACA
CCCTGTCAAGGACAGCTGGGGCTCAGCCCTGCGTTGGTACCGATACTACTGAAAACCTTGGAGTTGCTAATGGAC
AAATACTTGAATCCTCGGGTGAGGGCACAGCTACCAACGGGGTGGAGTTGCACACCACGGAAAGCATAGACTTGG
ACCCAACCAAACCCGAGAGTGCATCACCTCCTGCTGACGGCACGGGCTCTGCATCAGGCACCCCTTCTGTCTAGCC
AGCCCAAGTCTTGGGCCAGCCTCTTTTCATGATTCTAAGCCCTCTTCTCCTCGCCGGTGGCCTATGTGGAAACTA
AGTATTTCCCTCCCGCCATATCTCCCTGGTTTCTGAAAAGCAGGTTGAAGTCAAAGAAGGGCTTGTTCGGTTT
CAGAGGATCCTGTAGCCATAAAGATTGCAGAGTTGCTGGAGAATGTAACCTAATCCATAAACCAGTGTCTGTTGC
AACCCCGTGGGCTGATCAATAAAGGGAAGTGGTGTACATTAATGCTACACTGCAGGCATTGGTTGCTTGCCCGC
CGATGTACCACCTGATGAAGTTCATTCTCTGTATTCCAAAGTGCAAAGGCCTTGTACGTCAACACCCATGATAG
ACAGCTTTGTTTCGGCTAATGAATGAGTTCATAATATGCCAGTACCTCCAAAACCCCGACAAGCTCTTGGAGATA
AAATCGTGAGGGATATTTCGCCCTGGAGCTGCCTTTGAGCCACATATATTTACAGACTCCTGACAGTTAACAAGT
CAAGCCTGTCTGAAAAGGGTCGACAAGAAGATGCTGAGGAATACTTAGGCTTCATTCTAAATGGACTTCATGAGG
AAATGTTGAACCTAAAGAAGCTTCTCTCACCAGTAATGAAAACCTTACGATTTCACACGGCCCCAAAAACCACT
CGGTCAATGAAGAAGAGCAGGAAGAACAAGGTGAAGGAAGCGAGGATGAATGGGAACAAGTGGGCCCCCGGAACA
AGACTTCCGTACCCGCCAGGCGGATTTTGTTCAGACTCCAATCACCGGCATTTTGGTGGACACATCAGGTCTG
TGGTTTACCAGCAGAGTTCAAAAAGAACTGCCACTTTGCAGCCATTTTTCACGTTGCAGTTGGATATCCAGTCAG
ACAAGATACGCACAGTCCAGGATGCACTGGAGAGCTTGGTGGCAAGAGAATCTGTCCAAGGTTATACCACAAAAA
CCAAACAAGAGGTTGAGATAAGTCGAAGAGTGACTCTGGAAAACTCCCTCCTGTCTCTGCTGCACCTGAAAC
GATTCTGTTTATGAGAAGACTGGTGGGTGCCAGAAGCTTATCAAAAATATTGAATATCCTGTGGACTTGGAAATTA
GTAAAGAAGTGTCTTCTCCAGGGTTAAAAATAAGAATTTTAAATGCCACCGAACCTATCGGCTGTTTGCAGTGG
TCTACCATCACGGCAACAGTGCGACGGGCGGCCATTACACTACAGACGTCTTCCAGATCGGTCTGAATGGCTGGC
TGCGCATCGATGACCAGACAGTCAAGGTGATCAACCAGTACCAGGTGGTGAAACCAACTGCTGAACGCACAGCCT
ACCTCCTGTATTACCGCCGAGTGGACCTGCTGTAAACCCTGTGTGCGCTGTGTGTGCGCCAGTGCCCGCTTCGT
AGGACACCACCTCACACTCACTTCCCGCCTCTCTTTAGTGGCTCTTTAGAGAGAACTCTTTCTCCCTTTGCAAA
AATGGGCTAGAATGAAAAGGAGATGCCTTGGGGTTCGTGCACAACACAGCTTCTGTTGACTCTAACTTCCAAATC
AAAATCATTGTTGTTGAAACAGACTGTTGCTTGATTTTAGAAAATACACAAAACCCATATTTCTGAAATAATGCT
GATTCTGAGATAAGAAAGTGGATTGATCCCCAGTCTCATTGCTTAGTAGAATAAATCCTGCACCAGCAACAAC
ACTTGTAATTTGTGAAAATGAATTTTATCTTTCCTTAAAAAAGAAATTTTTTAATCCATCACACTTTTCTTCCC
TACCCTTTAGTTTTTGTATAAATGATAAAAATGAGCCAGTTATCAAAGAAGAACTAGTTCTTACTTCAAAAAGAAAA
ATAAACATAAAAAATAAGTTGCTGGTTCCCTAACAGGAAAAATTTTAATAATTGTACTGAGAGAACTGCTTACGT
ACACATTGCAGATCAAATATTTGGAGTTAAAAATGTTAGTCTACATAGATGGGTGATTGTAACCTTTATTGCCATTA
AAAGATTTCAAATTGCATTTCATGCTTCTGTGTACACATAATGAAAATGGGCAAATAATGAAGATCTCTCCTTCA
GTCTGCTCTGTTAATTCTGCTGTCTGCTCTTCTCTAATGCTGCGTCCCTAATTGTACACAGTTTAGTGATATCT
AGGAGTATAAAGTTGTGCGCCATCAATAAAAAATCACAAAGTTGGTTT

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FIGURE 4607

MALHSPQYIFGDFSPDEFNQFFVTFRSSVELPPYSGTVLCGTQAVDKLPDGGQEYQRIEFGVDEVIEPSDLPRTP
SYSISSTLNPQAEFILGCTASKITPDGITKEASYGSIDCQYPGSALALDGSSNVEAEVLENDGVSGGLGQRERK
KKKKRPPGYYSYLDGGDDSIESTEALVNGHANSAPNSVSAEDAEFMGDMPPSVTPRTCNSPQNSTDVSDIVPD
SPFPGALGSDTRTAGQPEGGPAGDFGQSCFPAGEAGRDTLSTRTAGAQPCVGTDTTENLGVANGQILESSGEGTATN
GVELHTTESIDLDPKPEASPPADGTGSASGTLPVSQPKSWASLFHDSKPSSSSPVAYVETKYSPPAISPLVSE
KQVEVKEGLVPVSEDPVAIKIAELLENTLIHKPVSLQPRGLINKGNWCYINATLQALVACPPMYHLMKFIPLYS
KVQRPCSTSTPMIDSFVRLMNEFTNMPVPPKPRQALGDKIVRDIRPGAAFEPTYIYRLLTVNKSSLSEKGRQEDAE
EYLGFIINGLHEEMLNLKKLLSPSNEKLTISNGPKNHSVNEEEQEEQGESEDEWEQVGPRNKTSVTRQADFVQT
PITGIFGGHIRSVVYQQSSKESATLQPFFTLQLDIQSDKIRTVQDALESIVARESVOGYTTTKTKQEVEISRRVTL
EKLPPVLVLHLKRFVYEKTGGCQKLIKNIIEYPVDLEISKELLSPGVKNKNFKCHRTYRLFAVVYHHGNSATGGHY
TTDVFQIGLNGWLRIDDQTVKVINQYQVVKPTAERTAYLLYYRRVDLL

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FIGURE 4608

GGAAGCCGACGCCGCGCTCGCATGCTCGCAGGCGCCGCGTAGCCGTCGCCACCGCCGCCAGCCCGTGCGCCCTCG
GCGCGTACCCGCCGCGCTCCCATCCCCGCCGCGGCGAGGGGCGCGCTCGGCCGCCCGGACAGTGTCCCGCTGC
GGCTCCGCGCGCATGGCCACCAAGATCGACAAAGAGGCTTGCCGGGCGGCGTACAACCTGGTGCGCGACGACGGC
TCGGCCGTCATCTGGGTGACTTTTAAATATGACGGCTCCACCATCGTCCCCGCGAGCAGGGAGCGGAGTACCAG
CACTTCATCCAGCAGTGCACAGATGACGTCCGGTTGTTTGCCCTTCGTGCGCTTACCACCGGGGATGCCATGAGC
AAGAGGTCCAAGTTTGCCCTCATCACGTGGATCGGTGAGAACGTCAGCGGGCTGCAGCGCGCCAAAACCGGGACG
GACAAGACCTTGGTGAAGGAGGTCTGACAGAATTTGCGTAAGGAGTTTGTGATCAGTGATCGGAAGGAGCTGGAG
GAAGATTTTCATCAAGAGCGAGCTGAAGAAGGCGGGGGGAGCCAATTACGACGCCCGAGACGGAGTAACCCAGCCC
CCGCCACACCACCCCTTGCCAAAGTCATCTGCCTGCTCCCCGGGGGAGAGGACCGCCGGCCTCAGCTACTAGCCC
ACCAGCCCACCAGGGAGAAAAGAAGCCATGAGAGGCAGCGCCCGCCACCCTGTGTCCACAGCCCCACCTTCCCG
CTTCCCTTAGAACCCTGCCGTGTCTATCTCATGACGCTCATGGAACCTCTTTCTTTGATCTTCTTTTTCTTTTC
TCCCCCTCTTTTTTGTTCATAAGAAAAGTCATTTTGATGCAAGGTCTGCCTGCCATCAGATCCGAGGTGCCTCC
TGCAGTGACCCCTTTTCTGGCATTCTCTTCCACGCGACGAGGTCTGCCTAGTGAGATCTGCATGACCTCACGT
TGCTTTCCAGAGCCCGGGCCTATTTTGCCATCTCAGTTTTCTTGGACCCCTGCTTCTGTGTACCACTGAGGGGCA
GCTGGGCCAGGAGCTGTGCCCGGTGCCTGCAGCCTTCATAAGCACACACGTCCATTCCCTACTAAGGCCAGACC
TCCTGGTATCTGCCCCGGGCTCCCTCATCCCACCTCCATCCGGAGTTGCCTAAGATGCATGTCCAGCATAGGCAG
GATTGCTCGGTGGTGAGAAGGTTAGGTCCGGCTCAGACTGAATAAGAAGAGATAAAATTTGCCTTAAAACCTTACC
TGGCAGTGGCTTTGCTGCACGGTCTGAAACCACCTGTTCCCACCCTCTTGACCGAAATTTCTTGTGACACAGAG
AAGGGCAAAGGTCTGAGCCAGAGTTGACGGAGGGAGTATTTAGGGTTCACTTCAGGGGCTCCCAAAGCGACAA
GATCGTTAGGGAGAGAGGCCAGGGTGGGGACTGGGAATTTAAGGAGAGCTGGGAACGGATCCCTTAGGTTTACGG
AAGCTTCTGTGTAAGCTGCGAGGATGGCTTGGGCCGAAGGGTTGCTCTGCCCGCCGCGCTAGCTGTGAGCTGAGC
AAAGCCCTGGGCTCACAGCACCCCAAAGCCTGTGGCTTCAGTCTGCGTCTGCACCACACATTCAAAGGATCG
TTTTGTTTTGTTTTTAAAGAAAGGTGAGATTGGCTTGGTTCTTCATGAGCACATTTGATATAGCTCTTTTTCTGT
TTTTCTTGCTCATTTTCGTTTTGGGGAAGAAATCTGTACTGTATTGGGATTGTAAAGAACATCTCTGCACTCAGA
CAGTTTACAGAAATAAATGTTTTTTTTGTTTTTCAG

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FIGURE 4609

MATKIDKEACRAAYNLVRDDGSAVIWVTFKYDGSTIVPGEQGAEYQHFIQQCTDDVRLFAFVRFTTGDAMSKRSK
FALITWIGENVSGLQRAKTGTDKTLVKEVVQNFAKEFVISDRKELEEDFIKSELKKAGGANYDAQTE

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FIGURE 4610

GCGGCCGGCGGCGTCTCCTCCCGGGACGCTGAGGGGCCCCGAGGAGACCGTGAGGCTCTGGCCTGCAGCTCGCGCC
GCCATGGACGCTGCCGAGGTGGAATTCCTCGCCGAGAAGGAGCTGGTTACCATTATCCCCAACTTCAGTCTGGAC
AAGATCTACCTCATCGGGGGGACCTGGGGCCTTTTAACCCCTGGTTTACCCGTGGAAGTGCCCTGTGGCTGGCG
ATTAACCTGAAACAAAGACAGAAATGTCGCCTGCTCCCTCCAGAGTGGATGGATGTAGAAAAGTTGGAGAAGATG
AGGGATCATGAACGAAAGGAAGAACTTTTACCCCAATGCCAGCCCTTACTACATGGAACCTTACGAAGCTCCTG
TTAAATCATGCTTCAGACAACATCCCGAAGGCAGACGAAATCCGGACCCCTGGTCAAGGATATGTGGGACACTCGT
ATAGCCAACTCCGAGTGTCTGCTGACAGCTTTGTGAGACAGCAGGAGGCACATGCCAAGCTGGATAACTTGACC
TTGATGGAGATCAACACCAGCGGGACTTTCTCACACAAGCGCTCAACCACATGTACAACTCCGCACGAACCTC
CAGCCTCTGGAGAGTACTCAGTCTCAGGACTTCTTAGAGAAAGGCCTGGTGCAGGCGGCTTGCTGGGGGATGTGAG
CGCTCAGGATGTGATGAGGTACTCGTGGTTCTGGAGCTCTAGAAACACTTCTGATGCATGAAAAATGTGTGATGG
TGCAAGGAATGGATTTCAGGATGTTGTTGGAGAAACAAGTTTGTGATTAGTCCTTAAACCTTAGCTCCCTGGGACA
TTCTTCAATTCCACATCTGTTTCTAGAAACCAGCCCTTTTCCCCCCTTTTGGAGAAATAAAAAAGCCTTAGGT
AAATAAGTCATTCTCCCTAGCAGAGCCACTTGGGTCTCCTGCATGGAAGCCGTCACACTTGGGCAGGTGTTTCAGT
GACTGGTAGGTGTAGATACAGCAGGAGTGGCCATGTGGTCCACGGCTTTTACCCCTTCTTGATCCTGATTTCTT
GGGCTGAATTTAGACTCTCTCACAGAGGTGGCTCACAGAGAAGGATGGCAGATGGTGCAGCCAACAATGCTGACC
GGTGCTTATCCTCTAAGCCCTGATCCACAATAAAAAATGGACCCAACTCAAAAAAAAAA

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FIGURE 4611

MDAAEVEFLAEKELVTIIPNFSLDKIYLIIGGDLGPFNPGLPVEVPLWLAINLKQRQKCRLLPPEWMDVEKLEKMR
DHERKEETFTPMPSPYMEITKLLLNHASDNIPKADEIRTLVKDMWDTRIAKLRVSADSFVRQQEAHAKLDNLTL
MEINTSGTFLTQALNHMYKLRTNLQPLESTQSQDF

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FIGURE 4612

GGCACGAGGCTTCCCAGAGGCGCGAGTCGCTTTTCCAGGAGCCGAGGCCAAACGGGGCCGGGCCTGAAGGGTCC
CCCGCCAGCCCGCGGCCGCGCCATCAATCGCCGCCGCTCGTCCCGCTTCTCGGCTGAGGCGCCGCGCGGCCAGG
CAGCGGGTCCAGGCCTCAGCCGCGCGCCCAGGGGCCTCCGGGGCCCTCCCGGGTCAGCATGCCCCGGGTGAAACT
GACCACCCAGGCCTACTGCAAGATGGTGCTGCACGGCGCCAAGTACCCGCACTGCGCCGTCAACGGGCTCCTGGT
GGCCGAGAAGCAGAAGCCGCGTAAGGAGCACCTCCCCCTGGGCGGCCCCGGCGCCACACACCTCTTCGTGGA
CTGCATCCCCCTCTTCCACGGCACCTGGCCCTCGCCCCATGCTGGAGGTGGCTCTCACCCTGATTGATTCATG
GTGCAAAGATCATAGCTACGTGATTGCTGGTTATTATCAAGCTAATGAGCGAGTAAAGGATGCCAGTCCAAACCA
GGTTGCAGAGAAGGTGGCCTCCAGAATCGCCGAGGGCTTCAGCGACACTGCGCTCATCATGGTAGACAACACCAA
GTTTACGATGGACTGCGTAGCGCCTACGATCCACGTGTACGAGCACCATGAGAACAGATGGCGGTGCAGAGACCC
ACACCATGACTACTGTGAAGACTGGCCAGAGGCACAGAGGATCTCAGCCTCGCTCCTGGACAGCCGGTCTCTACGA
GACGCTCGTGGATTTCGATAACCACCTGGATGACATTCGGAATGACTGGACAAACCCAGAGATCAATAAAGCTGT
CCTACACTTGTGCTAGGCAGGCACCGCTGTGACTGGGCTCCGGGCCTTTCCACTACGTTGAAGAAGAAAACCTAT
TTTTAAATGTAAATAAAATATCTGGTAGCCTGTGTGGAAAGCTGACCGTTTTAAGAAGTGGCATGTGCCTTGAAA
GGGGGCAGAATGTTTCAGTCGGTTCGTGTTTTTAACACAGAGTCTCTAGAAGAGGTGCAGACATCCCGTCTGACTGT
CCCTGTGGACTCTCTCAGTTGTATGTTGCTATAATCCTCCAAATCAAAGCTCTTTCTGCTTGTGCAAGATTGTTT
CTATTAAACAGTTTTTAACCTTTTATAATCTGGAGAGAATACTTTTTAAGGCTTTTGAACCTATCTTTTTTTA
AAAAAAAAAAAAAGCCACATCTTATACTCCAATGAGTGTGTTGTGAGTTTTATCCTGTTTGAATTTTGATGT
CGTCCAGGCGTCTTGGGATCAGGGTAGACACGTGGAGTGCTGGTGCTGAGCTGTTTGAGAAGCTCTGTGTGGGTG
TTTCTGTGGTCAGGTAGGCTGGGCTGTGAACAGCACTGCTCCACATGGTGTCGGCTCACAGAGCCACCGCAACTC
TGCCAGCGGGAGTGACACCCTGATGCCACAGAAGCCTTTATCGTTAGGGGCAAAGCAGACATCTCTGGTAGC
AGGAGCTCAGTGTGGTGCTCTTACGCCACGCAGAAAGCTCACGTGCCTGCAGGGCCAGGAAAGGGAAATGATCGT
TTCTTTTGTATTAGGAAAAACAAGACTTAGACTTCCCGAGTTGTGCAGAGTGACGTCTGTACTTTTTATACTTAG
AACATTTGGTCAAGTTTTGTAAACCAACCTTAGGGAATTGAGAGGGAACTTTATGGTACGTTTACCTTTTTTCC
TTTTTATATGAATTATTTGTACAAAGTTCAGAGAGCGGTACCTTTCTACTGTCTTTTCTTTGACTCCATGGAG
GAATTTGTAACGATCGGTGTGACCTGAAAGGGTTTGTGATACAGCGGTCACTATTTTCTCTTAACACATAGGAAA
AAAGTTCAGACATCGCTACAATAAATGTGCTTTATTTGATCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4613

MPGVKLTTQAYCKMVLHGAKYPHCAVNGLLVAEKQKPRKEHLPLGGPGAHTLFVDCIPLFHGTLALAPMLEVAL
TLIDSWCKDHSYVIAGYYQANERVKDASPNOVAEKVASRIAEGFSDTALIMVDNTKFTMDCVAPTIHVYEHHENR
WRCRDPHHDYCEDWPEAQRISASLLDSRSYETLVDFDNHLDDIRNDWTNPEINKAVLHLC

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FIGURE 4614

CGACGTTTCGCAGCGCTACCCTTTTCCGCTCCACGGTGACCTCCGTGCGGCCGGGTGCGGGCGGAGTCTTCCTCGA
TCCCGTGGTGCTCCGCGGCGCGGCCTTGCTCTCTTCCGGTCGCGGGACACCGGGTGTAGAGGGCGGTTCGCGGCGG
GCAGTGGCGGCAGAAATGTTGGCTACCAGGGTATTTAGCCTAGTTGGCAAGCGAGCAATTTCCACCTCTGTGTGTG
TACGAGCTCATGAAAGTGTTGTGAAGAGCGAAGACTTTTCGCTCCCAGCTTATATGGATCGGCGTGACCACCCCT
TGCCGGAGGTGGCCCATGTCAAGCACCTGTCTGCCAGCCAGAAGGCACTGAAGGAGAAGGAGAAGGCCTCCTGGA
GCAGCCTCTCCATGGATGAGAAAGTCGAGTTGTATCGCATTAAAGTTCAAGGAGAGCTTTGCTGAGATGAACAGGG
GCTCGAACGAGTGGAAAGACGGTTGTGGGCGGTGCCATGTTCTTCATCGGTTTCACCGCGCTCGTTATCATGTGGC
AGAAGCACTATGTGTACGGCCCCCTCCCGCAAAGCTTTGACAAAGAGTGGGTGGCCAAGCAGACCAAGAGGATGC
TGGACATGAAGGTGAACCCCATCCAGGGCTTAGCCTCCAAGTGGGACTACGAAAAGAACGAGTGGGAAGAAGTGAG
AGATGCTGGCCTGCGCCTGCACCTGCGCCTGGCTCTGTACCGCCATGCAACTCCATGCCTATTTACTGGAAACC
TGTTATGCCAAACAGTTGTACCACTGCTAATAAATGACCAGTTTACCTGAAA

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FIGURE 4615

MLATRVFSLVGKRAISTSVCVRAHESVVKSEDFSLPAYMDRRDHPLPEVAHVKHLASQKALKEKEKASWSSLSM
DEKVELYRIKFESFAEMNRGSNEWKTVVGGAMFFIGFTALVIMWQKHVYVGPLPQSFDKEWVAKQTKRMLDMKV
NP IQGLASKWDYEKNEWKK

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FIGURE 4616A

GTTCTAGAACATTCTCATCACCCATATTTACATTTATTTTTAATAACTCTCATGTGTAAGCTGAGTGTTTTAAAC
TTTAGAGACTTCTGGGGGTGCTGAACTTGATAAAAAATATTCAGTATACAAGTGTTCTTTATAGTTCACATCATCA
TTTTTCATAGAATTAGGGTTTTAAAAATTAGAAAGTAATTTAGGCCATTTCCATCTCCTGTCCCTCAAATCCCAGCT
CAGTTTTGGGATGAGGTGTCAAGTATAAGTTTGTAAAGTATGCCAGTCATTTGCACGGCTAAGAGAAACATCTAGA
GAAGTCTATATACGACTTGCTTAAAGCTGAATGTTGATTACTGTTACATGATTTGGGTGATTTTAGTCACTGG
GACTGAGCTAATGGAGTTGAAGCATTGTTGCGGGCATTGTACCTCCAGACCAGTGTGTAATACAAAGAGTTCTTG
CAGACATAGGACAGAATTGGAGAAAACAGCTTCTAACAGTGGGAAGACTCTCAGTACAACCAAGCTATTCCCTTACC
TTTCTGATTTCTGAACTTTTTTCCATGTGATACCTGCTGCTTTGAAGGCATAAAATAACAGAAGCAGATAGAGC
AGAAATCCTCACTCAGATCTTCTCCTTCCCTACCTGTATAACAGTTTGTGGCTTGCCTTGTCTGTTTGTGCGTT
TCGTTACGCGTATGTGAGTATGTGCACGTGATTTCCAGAAAGGAGAAGCGCACGATACTGCCCCGTGCTCTGTGAC
TCCTGAGTGCACGCTTCTCTGCATTTGGGCTCCTAGGTGGCCTCGTCTGTGGACGTTGCCCTTGTTCGTG
CCATCCACACATTCCTGATGCCCCGCTGCTCTACTCTTTCTCCAGAGTACTTTTTCCAAACATGTGATTTGCACA
TTTGTATATGTTATTGTTTGTGTTTCCACTCTAGAAAGTGTGCCACTAGGCAGGAATGTTTGATTTGTTCACTGAT
GATCCAGATCTCTAGAACCCTGCCTTGCCTGTAGAGGGTGTGTTGTAATGTGCTCTGAATGAATGGCTCCATG
ATCCTCGTTTCTAAGAGCTAGCACGATTTCTCACTCAGTCTGTTGGACACAGGTTCCCTGGAACAGTGCTGTT
GTGGTTATCTTCTCAGTGTCTTTGTTTCTGAACTTGAAACGCTTTGAGTTTTTTATTGTTTTTGTCTCTCTCA
TTAGTTTGAGTCCCTTGAGATAGGCTTTCATTTGTCCAGTCACTGTTTCAAGGAGCCCTGAGGGCCTTGGCCC
ACGTCGAGGTAAGTGGTTTTTTTATTTTTATTTTTTATTTTGTAGACGAAGTCTCGCTCTGTACCAGGCTGG
AGTGCAGCGGTGCGATCTCAGCTCACTGCAACCTCCGCTCCTGCGTTCAAGCGATTCTCCTGCCTCAGCCTTCC
GAGTAGCTGGGACTATAGGCACGTGCCGCCACGCCGGCTAATTTTTTGTATTTTTTAGTAGAGACGGGGTTTCAC
CATGTTAGCCAGGATGGTCTCGATCTCCTGACATCGTGATCCGCTGCCTGGGCTCCCAAAGTGCTGGGATTAC
AGGTGTGAGCCACCGCGCCAGCCCTGCAGGTAAGTGTAAATGTAGGAAGTGCTGCCTCTGGGCACCTTGGCCCC
AGGGTTTATTAGCAGTTGCCCTGGTGGGTTTTTGTGGCTGTGATGAGAAGTGCTTCTGTTCCCCCTCCACCAC
ACTCCTGCAACTGTTTAAACAGTGGCTGTGACCCCTGAGATGATCCAGGGTTTCAAGGCGTGACATGTCTGTG
TTTTCGTTTTTCAAGATATCACCTTGGGGTGACTCTCAACTTACATGGATTTTCAAAGATTTATTCAATATGTTT
TTCAGAAAGTGTGTGAAGAGCGAAGACTTTTCGCTCCAGCTTATATGGATCGGCGTGACCACCCCTTGCCGGA
GGTGGCCCATGTCAAGCACCTGTCTGCCAGCCAGAAGGCATTGAAGGAGAAGGAGAAGGCCTCCTGGAGCAGCCT
CTCCATGGATGAGAAAGTCGAGTGTGGGTATTGAAGGGACCCACAGGCGCGCCAGCAGCTCTCGGAAGCGTGTG
TGTGACAGAGCCTCTGCTCACTTCTGGGCCTACTGTCTAGAGGCAGTCTTGACAGGAGGGTTGCTCTGCTGGGT
TTGCGGGTCACTGTGCCAGGGCCCCAGTTTATGTGCTCACCAGTCACTTAGCTCTGCCAGCTGACAGGATCTTTT
GCTAGGCCCCCTTCTCTGTGCTGAGTGGAGGTAGCCTCTCAGCATATCTGCTGGGTAAGACATAGTTAACTGTAA
ATTATTGAAAGAACTCAGCAAAATGCATAGTGTGTTGGTATGAAAGGGGCAGAAAAATAACAAGATTAAATAGAC
CCTAATACTGTAATTCAAGTAAGAAATAATTTGCAGTTTTAATTTGCACCTGAAGCGAAGTGTATGCATTTTCT
TCTTTCTTGCCTGTACATGCCCTGCGTGGGCACGTGTGTGCACGTACGTGCGTGAACATGATGTGCCTGGGT
TGGTGTATCCTTCACTCTGTGTTTCTCCTTCAAGTGTGGTTTTTGGGAGAAAGTGGTTGAATGTTGCAGAGG
AGGGAGCTGCTGACCTTTGTGCCTGTAAATGGCTGTCTCTGCCCCAGTGTATCGCATTAAGTTCAAGGAGA
GCTTTGCTGAGATGAACAGGGGCTCGAACGAGTGAAGACGGTTGTGGGCGGTGCCATGTTCTTCATCGGTTTTCA
CCGCGCTCGTTATCATGTGGCAGAAGCACTATGGTGAAGTAGAGAGGGAGGAAGGCATGGGCGCTGGACTGGGGC
TCCAGCCTGCAGTGCCCATTTGGTGGGCTGTGCGGGACCTCCATACCTTGAGGCTATGAGATAGGGACTGCATTCC
AGAGTTTATCTCAGGATTGTTTCCAGGCTTGGTGACCTGGAGAAGTGAAGTCGTGGGAGGTTAGTTTATAAGCC
AGCATCTGATTATTCATAGCCATGCTTGTGGGTGGTGAATACCTTAACTACTTTGTACAGCACACCACGTTTT
CAGTAGCAATTTATGTGCTCACCAGTCACTTAGCGAAAGATGACTTCGTGAAGGTTGAGCAAGGATAAGGGGAC
TCATTCAATTGAATGACTGTCTGGACTGTTGTGAGGACTGCATCTCAACAGCCAGCATCTGGGGGTCCCCGACCTGA
TAGTTTGTGTGTGGGCATTGCCGGGTGCTCGCTCGTGGTAATGACTCTTCCCCGAGGTTCTTCTGTCCAGGCA
GAACAGGCATTTTTGCATTCTGAATAGGTATATTCTCGTACTTTTGGTTTTGAATGTGGATGTGGGTTAATAACAG
ACCCGAATCTATTTGATCTTCCAGGTCACCTTGGGCTCTGTTTGTGAGATCCTGTTATCCATAGCCTTTAGAGAG
GACCTTCTGCTTTTAGCTTATTTTGTGCTAACTTTTTACAAACAAAGGGCTAATTTTTAAATGTCAGTGTGTG
AGTGGTCAGAAACCGTGTGTTTGTGAGCGGGTGTGAGTGGCAGGTGGCTCTGCTGACCTGGTGGCTGCTGTGCGG

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FIGURE 4616B

GAGGATTTAACCTGTGTGAGGGATTGGCCTAGAAACAACCTGTTGAGATAGTCTTGCCCCATAACCTGTCTCACA
CCGTAGTGTACGGCCCCCTCCCGCAAAGCTTTGACAAAGAGTGGGTGGCCAAGCAGACCAAGAGGATGCTGGACA
TGAAGGTGAACCCCATCCAGGGCTTAGCCTCCAAGTGGGACTACGAAAAGAACGAGTGGAAGAAGTGAGAGATGC
TGGCCTGCGCCTGCACCTGCGCCTGGCTCTGTCACCGCCATGCAACTCCATGCCTATTTACTGGAAACCTGTTAT
GCCAAACAGTTGTACCAC TGCTAATAAATGACCAGTTTACCTG

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FIGURE 4617

GCCGTTTTCTTTCTTCTGGTGTCCTCGTCGCGGCTTGGGACCCGGCAAGATGGGCAAGAAGGGCAAGAAGGAGAAGAA
GGGCCGCGGCGCGGAGAAAGACGGCCGCCAAGATGGAGAAGAAGGTGTCTAAGCGCTCGCGGAAGGAGGAGGAAGA
CCTGGAAGCGCTCATAGCCCATTTCCAGACACTCGATGCCAAGAGGACTCAGACTGTGGAACTTCCGTGCCCCC
ACCCTCACCAAGGTTAAATGCCTCCCTCTCGGTTTCATCCTGAGAAAGATGAGTTAATCCTTTTTTGGAGGTGAATA
TTTCAACGGCCAAAAAACTTTTTTGTATAACGAGCTCTATGTCTACAATAACCAGAAAAGGACACCTGGACCAAAGT
TGACATCCCCAGTCCACCTCCGAGGCGCTGTGCTCACCAGGCGGTGGTAGTGCCTCAAGGTGGCGGACAGCTGTG
GGTCTTTTGGAGGGGAGTTTGCCTCTCCCAACGGAGAGCAGTTCTACCACTACAAGGATCTCTGGGTCTGCAATTT
GGCCACCAAGACCTGGGAACAAGTCAAATCAACAGGCGGTCTTTCGGGTCTGGAGTGGACATCGGATGGTGGCCTG
GAAGAGACAATTGATCCTGTTTGGTGGCTTCCATGAAAGTACACGGGATTACATCTACTACAACGACGTGTATGC
CTTTAATCTGGACACCTTCACATGGAGCAAGCTGTCCCGTCAGGGACGGGGCCACACCCAGATCAGGCTGCCA
GATGTCCGTCCTCCCAAGGGCGGCATCGTCGTCTATGGGGGCTACTCGAAACAGAGAGTTAAGAAAGACGTGGA
CAAGGGCACACGGCACTCAGACATGTTCTGTGAAGCCAGAGGACGGAAGAGAAGACAAGTGGGTTTGGACTCG
GATGAACCCCTTCGGGGGTCAAGCCACCCACGGTCTGGCTTTTCCGTGGCCATGGCCCCGAATCACCAGACACT
GTTCTTCGGGGGTGTCTGTGACGAGGAAGAGGAGGAGAGCCTGTCTGGGCGAGTTCTTCAACGATCTGTACTTCTA
CGACGCCACCAGGAACCGTTGGTTTGAGGGACAGCTGAAGGGACCCAAGTCTGAAAAGAAGAAACGCAGGCGGGG
CAGAAAAGAGGAGCCCGAAGGTGGTAGCAGGCCGGCGTGTGGGGGAGCTGGCACCCAGGGGCCTGTGCAGCTGGT
CAAGGAGGTGGTGGCCGAGGATGGCACCGTGGTCACCATTAAGCAGGTGCTCACCAGCGCCAGGCTCGGCGGGGCA
GCCCCGGTCTGAGGACGAAGACAGCCTTGAGGAGGCCGGCAGCCCCGCACCTGGGCCGTGTCCACGCTCCAACGC
CATGCTGGCTGTGAAGCATGGGGTGTCTACGTCTATGGGGGCATGTTTGAGGCCGGCGACCGCCAGGTACCCCT
CAGCGACCTGCACTGCCTGGACCTGCACAGGATGGAGGCGTGGAAGGCCTTGGTGGAGATGGACCCAGAACTCA
GGAGTGGCTGGAGGAGACGGACTCGGAAGAGGACAGTGAGGAGGTTGAGGGCGCCGAGGGTGGGGTGCACGACGA
AGACAGCGGAGAGGAGAGCGGTGCGGAGGACTGAGAAGAGCCCCCTGCCAGGGGCGCCTGGCAAGTGCTGTGCCCA
CGTCCGCCCAGGACCCAGCCGTGTTGAGTGAAGCTCTTGGGGCCAGCGTGCCTGACGCACAGGAGAGAGCTG
AAGGTGGGTGGCCAGGCCAGGGTGTGAACCTTTCTCCATGGTTTAGTCTCTGACGCGGCACTGGGCCGGAAGTT
CAACTGAGTGCAGTGCAGGTGGATTCCCTCAGCAGCCTGTGTGTTGTGTGAAATAAAATTGGACTTGAAACAAGAA
AAAAAAAAAAAAA

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FIGURE 4618

MGKKGKKEKKGRGAEKTAAKMEKKVSKRSRKEEEDLEALIAHFQTLDAKRTQTVELPCPPPSPRLNASLSVHPEK
DELILFGGEYFNGQKTFLYNELYVYNTRKDTWTKVDIPSPPPRCAHQAVVVPQGGGQLWVFGGEFASPNGEQFY
HYKDLWVLHLATKTWEQVKSTGGPSGRSGHRMVAWKRQLILFGGFHESTRDYIYYNDVYAFNLDTFTWSKLSPSG
TGPTPRSGCQMSVTPQGGIVVYGGYSKQRVKKDVKGTRHSDMFLLKPEDGREDKWVWTRMNP SGVKPTPRSGFS
VAMAPNHQTLFFGGVCDEEEEEESLSGEFFNDLYFYDATRNRWFEGQLKGPKSEKKKRRRGRKEEPEGGSRPACGG
AGTQGPVQLVKEVVAEDGTVVTIKQVLTAPGSAGQPRSEDEDSLEEAGSPAPGPCPRSNAMLAVKHGVLYVYGGM
FEAGDRQVTLSDLHCLDLHRMEAWKALVEMDPETQEWLEETDSEEDSEEVEGAEGGVDDDEDSGEESGAED

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FIGURE 4619

GGCTGTGACTAGCGGGCCGGCCCGGGCCAGGACAGCGGGCGGGCGGGCGGGCGGGCCTGGCCCCGGGATGGCTAT
GTTCCGCAGCCTGGTGGCCTCGGCTCAGCAGCGGCAGCCGCCGGCCGGGCGGGCGGGCGGCGACAGCGGCCTGGA
GGCGCAGTACACCTGCCCCATCTGCCTGGAGGTCTATCACCGGCCCGTGGCCATCGGCAGCTGCGGCCACACGTT
CTGCGGGGAGTGTCTCCAGCCCTGCCTGCAGGTGCCATCCCCGCTGTGCCCACTGTGCCGCATGCCCTTCGACCC
CAAGAAGGTGGACAAGGCCACCCACGTGGAGAAGCAGCTCTCATCCTACAAAGCGCCCTGTTCGAGGCTGCAACAA
AAAGGTGACCCTGGCAAAGATGAGAGTGCACATTTTCGTCTGCCTGAAGGTCCAGGAGCAGATGGCCAACCTGCCC
CAAGTTTCGTCCCCGTGGTGGCCACATCACAGCCTATCCCCAGCAACATCCCCAACAGGTCCACCTTCGCCTGCCC
GTACTGTGGTGGCCGCAACCTGGACCAGCAGGAGCTGGTGAAGCACTGTGTGGAAAGCCACCGCAGCGACCCCAA
CCGCGTGGTGTGCCCCATCTGCTCGGCAATGCCCTGGGGGGACCCAGCTACAAGAGCGCCAACCTTCCTGCAGCA
CCTGCTTACCGACACAAGTTCTCTACGACACCTTTGTGGACTACAGTATTGACGAGGAGGCCGCTTCAGGC
TGCTCTGGCCCTGTCTCTCTCTGAGAACTGAAGGGAAGCGCAGCCACCCGCTGCGTCTGGGGTCAGGGATGTCC
CCGCTCCTGTGTGCGACCTGGCACCTGCTCGGGAGTGCACCTCACCGGACTGAGCTCACAGGAGGAGCCTGCACC
CGCGCAGAAGGGGAGCCGGGGCCGAGCCTCCGGGCCTGAATACGGGCCAGCCGCCGAGGCCGCCAGAGCAGGGCC
GCCTGGTCCACCGGCGTCGCTGGGTTCCTTCGGTGTCTTGGCCGAGCAGGCGGCCTACTTGGGCAGGGCTGGAC
GCTGAGACCTGGAGCTGCCACCGTCTCTTCAAGCCATGATACCCCTCGTGGGAAGAAGGGACCGACGCGCGAGT
CGCGGCTGCGCAGTCGAGCCCGGGAGGAACCCAGGCTGCTGCCCTGGCCAGCCCGACCTGCCCCGGCCCCACTT
CCACCTTGCGCATTTGGTACTGGCTTTTGTGATACTTAGGAACCCTGGCATCTTTTCTATATTATCCAGTGTGAT
AATCTTTTCACGTTTTATAGAGCAAAGACAGAGCAGTTACTCTTCATATTGCAATATCTGTGTTTGACTAGGAAT
AATAGTATTTTTATGGAACATTTACAAAATTATATTTTTTAAGAAAACAATCAAAACAAGCATTGGGGGATTGGG
GCAAGGATGGAAGGAGCAGTGGGGCAGCTGCCAGAGCTCAGGCGAGCCATGGGGTCTGCTGTGGGGTCTGCCCTG
GCCACCCACTGTGTGTCTGGGTCTTGAGGTTTGTACGTTTCTCTTTGATGACCAGGAAGAAATCCCAGCACCCC
AGCCACAGGCTGTGGCTGCTCCCAGCAGAGGCGGGGCCGGCAGAGAAGGGGCCTCCTCCACCCAGAGTCTGGCC
TTGGCCCGCTGTACCTTCAAAGCTGACTGTGCCCCGCTGCGGGAGGGGACGGCACCCAGTGGTGGCAGAGCTT
GGGGGCCTGGGCAGGGGCCCGCTTGGCGGGCCGGGAACACGTCAACATTCTTTTCTGTTCTTGGCATTAAATTAT
TGCTGTCTTTTTTTTTAAAAAAAAGTTTAAATAAAATGTCTCAGAGC

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FIGURE 4620

MAMFRSLVASAQQRQPPAGPAGGDSGLEAQYTCPICLEVYHRPVAIGSCGHTFCGECLQPCLQVPSPLCPLCRLP
FDPKKVDKATHVEKQLSSYKAPCRGCNKKVTLAKMRVHISSCLKVQEQMANCPKFVPVVPVTSQPIPSNIPNRSTF
ACPYCGARNLDQQELVKHCVESHRSDFNRVVCPICSAMPWGDP SYKSANFLQHLLHRHKFSYDTFVDYSIDEEAA
FQAALALSLEN

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FIGURE 4621

CTCCGACGTCATCGGGGCGCGCCCTCGCGCTGTGCGCGCCACAGTCTGCGACGGGACCCGGCGTGCCCATGTGTC
AGGTGGGCGAGGACTACGGGGAGCCGGCGCCTGAGGAGCCGCCCCGGCGCGCGGGCCAGGGACTGTTTCAAGG
CCTTCTACGTCCACAAGTTTACAGAGCCATGCTGGGCAAGAACCGGCTCATCTTTCCAGGCGAGAAGGTGCTCTTGG
CGTGGTCTGGGGGGCCTTCGTCCAGCTCCATGGTCTGGCAGGTTCTTGAGGGCCTGAGCCAAGATTCTGCCAAAA
GACTGCGCTTTGTGGCAGGAGTCATCTTTGTTGACGAGGGAGCAGCCTGTGGCCAGAGCCTAGAGGAGAGATCAA
AGACCCTGGCCGAAGTGAAGCCCATTCTGCAAGCAACTGGGTTCCCATGGCATGTGGTGGCCTTAGAGGAGGTGT
TCAGCCTGCCACCGTCGGTGCTTTGGTGCTCTGCCCAGGAGCTAGTGGGATCCGAGGGGGCCTACAAGGCGGCCG
TGGACAGCTTCCCTCCAGCAGCAGCATGTGCTGGGGGCCGGGGGTGGTCTGGCCCGACTCAAGGGGAGGAACAGC
CACCCCAGCCCCCGCTGGACCCCCAGAACCCTGGCAAGACCGCCTGCCCCTGCCCAGACTGAGGCTCTTTCCCAAC
TGTTCTGCTCAGTGAGGACACTGACTGCCAAGGAGGAGCTTCTGCAGACCCTGCGGACCCACCTGATCCTCCACA
TGGCCCGAGCCACGGCTACTCCAAGGTCATGACTGGGGACAGCTGCACACGCTTGGCTATCAAGCTCATGACCA
ACCTGGCGCTGGGTGAGGGGGCCTTCCTGGCCTGGGATACGGGCTTCTCGGATGAGCGGCACGGGGACGTGGTGG
TGGTGC GGCCCATGCGGGACCACACCTGAAGGAGGTGCTTTCTACAACCGCCTGTTCTCTGTTCTCTGTCT
TCACACCAGCCGTCGACACCAAGGCCCTGAAAAGGCCAGCATCCACCGGCTGATGGAGGCCTTCATCCTCAGGC
TGCAGACCCAGTTCCCTCCACTGTCAGCACTGTGTACAGGACAAGTGAGAAGCTGGTGAAGGGCCCCGGGATG
GCCCTGCTGCTGGCGACTCCGGCCCCCGCTGCCTCCTCTGCATGTGTGCCCTGGACGTCGACGCGCTGACAGTG
CCACGGCTTTTGGGGCTCAGACCTCCTCGCGTCTCTCCAGATGCAGTACCCATCCCCCTGACTGAGACCCGGA
CACCCCCGGGGCCCTGCTGTTCTCCAGGGGTGGGCTGGGCCAGCGCTGCGGCCAGGGGGCCTGTAGGAGGGAGG
ACCCCCAAGCCTGCATTGAGGAGCAGCTGTGCTACAGCTGCCGCGTGAACATGAAGGACTTGCCCTCACTGGACC
CCCTGCCGCGGTACATCCTGGCTGAGGCCAGCTCCGCACACAGAGGGCCTGGGGCTTGACAGGAGATCCGGGACT
GTCTGATTGAGGACAGTGACGACGAGGCGGGCCAGAGCTGAGCGTGAGGACGTGCTTGCCGGGACAGCAGGCAGT
GGCCACCTGGTACACCACACTGGAGCCGGAAGGCAAGGACGGGGGACTGGCCTCTGATTGTCCATTTGTATAAAT
AAAACATTTTTTAATT

[illegible]

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FIGURE 4623

MFRSMDTIVGMLHNRSETPTFAKVQRGVQDMMRRRFEECNVGQIKTVYPASYRFRQERSVPTFKDGTRRSYQLT
IEPLLEQEADGAAPQLTASRLQRRQIFSQKLVEHVKEHHKAFLASLSPAMVVPEDQLTRWHPRFNVDEVPDIEP
AALPOPPATEKLTTAQEVLARARNLISPRMEKALSQALALRSAAPSSPGSPRPALPATPPATPPAASPSALKGVSQ
DLLERIRAKEAQKQLAQMTRCPEQEORLQRLERLPELARVLRVSVSERKPALSMEVACARMVGSCCTIMSPGEM
EKHLLLLSELLPDWLSLHRIRTDITYVKLDKAADLAHITARLAHQTRAEEGL

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FIGURE 4624

AGCCCCGGGGCAGCCAGCAGTACCGGGGCCCTGACCGTGCCCCGAGCTCACCCAGCAGATGTTTCGATGCCAAGAACAT
GATGGCGCCGCATGTCCATGAAGGAGGTGGACGAGCAGATGCTGGCCATCCAGAGCAAGAACAGCAGCTACTTCG
TGGAGTGGATCCCCAACAACGTGAAGGTGGCCGTGTGTGACATCCCGCCCCGCGGCCTCAAGATGTCCTCCACCT
TCATCGGGAACAGCACGGCCATCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCA
AGGCCTTCCTGCACTGGTACACGGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACATGAACG
ACCTGGTGTCCGAGTACCAGCAGTACCAGGACGCCACGGCCGAGGAAGAGGGCGAGATGTACGAAGACGACGAGG
AGGAGTCGGAGGCCCAGGGCCCCAAGTGAAGCTGCTCGCAGCTGGAGTGAGAGGCAGGTGGCGGCCGGGGCCGAA
GCCAGCAGTGTCTAAACCCCCGGAGCCATCTTGCTGCCGACACCCTGCTTTCCCTCGCCCTAGGGCTCCCTTGC
CGCCCTCCTGCAGTATTTATGGCC

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FIGURE 4625

MAVQGSQRRLLGSLNSTPTAIPQLGLAANQTGARCLEVSISDGLFSLGLVSLVENALVVATIAKNRNLHSPMYC
FICCLALSDLLVSGSNVLETAVILLLEAGALVARAAVLQQLDNVIDVITCSSMLSSLCFLGAIIVDRYISIFYAL
RYHSIVTLPRARRAVAAIWVASVVFSTLFIAYYDHVAVLLCLVVFFLAMLVLMVLYVHMLARACQHAQGIARLH
KRQRPVHQGFGLKGAVTLTILLGIFFLCWGPFFLHLLTLIVLCPEHPTCGCIFKNFNFLALIIICNAIIDPLIYAF
HSQELRRTLKEVLTCSCSQDRALVSWDVKSLGGSVCQELLPQQPQEKGLCDQKASSTALQRLLOKEFWVISDEH
GIDPSGNYVGDSDLQLERISVYYNEASSHKYVPRAILVDLEPGTMDSVRSGAFGHLFRPDNFIFGQSGAGNNWAK
GHYTEGAELVDSVLDVVRKECENCDCLOGFQLTHSLGGGTGSGMGTLISKVREEYPDRIMNTFSVVPSPKVSDT
VVEPYNATLSIHQLVENTDETYCIDNEALYDICFRTLKLATPTYGDLNHLVSATMSGVTTSLRFPQGQLNADLRKL
AVNMVPFPRLHFFMPGFAPLTARGSQQYRALTVPELTQQMFDAKNMMAACDPRHGRYLTIVATVFRGRMSMKEVDE
QMLAIQSKNSSYFVEWIPNNVKVAVCDIPPRGLKMSSTFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGM
DEMEFTEAESNMNDLVSEYQQYQDATAEEEGEMYEDDEEESEAQGPK

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FIGURE 4626

GGAGAGGGTGTGAGGGCAGATCTGGGGGTGCCCAGATGGAAGGAGGCAGGCATGGGGGACACCCAAGGCCCCCTG
GCAGCACCATGAAC TAAGCAGGACACCTGGAGGGGAAGAACTGTGGGGACCTGGAGGCCTCCAACGACTCCTTCC
TGCTTCCTGGACAGGACTATGGCTGTGCAGGGATCCCAGAGAAGACTTCTGGGCTCCCTCAACTCCACCCCCACA
GCCATCCCCCAGCTGGGGCTGGCTGCCAACCAGACAGGAGCCCGGTGCCTGGAGGTGTCCATCTCTGACGGGCTC
TTCCTCAGCCTGGGGCTGGTGAGCTTGGTGGAGAACGCGCTGGTGGTGGCCACCATCGCCAAGAACCGGAACCTG
CACTCACC CATGTACTGCTTCATCTGCTGCCTGGCCTTGTCGGACCTGCTGGTGAGCGGGAGCAACGTGCTGGAG
ACGGCCGTCATCCTCCTGCTGGAGGCCGGTGCACTGGTGGCCCCGGGCTGCGGTGCTGCAGCAGCTGGACAATGTC
ATTGACGTGATCACCTGCAGCTCCATGCTGTCCAGCCTCTGCTTCCTGGGCGCCATCGCCGTGGACCGCTACATC
TCCATCTTCTACGCACTGCGCTACCACAGCATCGTGACCCTGCCGCGGGCGCGGCAAGCCGTTGCGGCCATCTGG
GTGGCCAGTGTGCTTTCAGCACGCTCTTCATCGCCTACTACGACCACGTGGCCGTCTCTGCTGTGCCTCGTGGTC
TTCTTCCTGGCTATGCTGGTGCTCATGGCCGTGCTGTACGTCCACATGCTGGCCCGGGCCTGCCAGCACGCCCAG
GGCATCGCCCGGCTCCACAAGAGGCAGCGCCCGGTCCACCAGGGCTTTGGCCTTAAAGGCGCTGTCAACCTCACC
ATCCTGCTGGGCATTTTCTTCCTCTGCTGGGGCCCCCTTCTTCCTGCATCTCACACTCATCGTCTCTGCCCCGAG
CACCCACGTGCGGCTGCATCTTCAAGAACTTCAACCTCTTTCTCGCCCTCATCATCTGCAATGCCATCATCGAC
CCCCTCATCTACGCCTTCCACAGCCAGGAGCTCCGCAGGACGCTCAAGGAGGTGCTGACATGCTCCTGGTGAGCG
CGGTGCACGCGCTTTAAGTGTGCTGGGCAGAGGGAGGTGGTGATATTGTGTGGTCTGGTTCCTGTGTGACCCCTGG
GCAGTTCCTTACCTCCCTGGTCCCCGTTTGTCAAAGAGGATGGACTAAATGATCTCTGAAAGTGTGGAAG

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FIGURE 4627

MAVQGSQRRLGSLNSTPTAIPQLGLAANQTGARCLEVSI SDGLFSLGLVSLVENALVVATIAKNRNLHSPMYC
FICCLALSDLLVSGSNVLETAVILLLEAGALVARAAVLQQLDNVIDVITCSSMLSSLCFLGAIADVDRYISIFYAL
RYHSIVTLPRARQAVAAIWVASVVFSTLFIAYYDHVAVLLCLVVFFLAMLVLMVLYVHMLARACQHAQGIARLH
KRQRPVHQGFGLKGAVTLTILLGIFFLCWGPFFLHLLIVLCPEHPTCGCIFKNFNLFALIIICNAIIDPLIYAF
HSQELRRTLKEVLTCSW

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FIGURE 4628

GCATAGGCTAGGTAGCGAGGCCGCGTGTGAATCGGCCGAGGCCGAGTTTCTGCGCTTCCTTCTCCCTCTCTCCAG
ACGTCTGTTGCTCGTTTCGGTCCTATGTCGCGCCGGGCCCTCCGAGGCTGAGGGGGGAACAGCGCGGCCAGGAGCCC
CTCGGGCCCCGGCGCCTTGCAATTCGATCTCCGTGATGACGATGACGCGGAAGAAGAAGGGCCCAAGCGGGAGCTT
GGTGTCCGGCGTCCCGGGGGCGCAGGGAAGGAGGGCGTCCGAGTCAACAACCGCTTCGAGCTGATAAACATTGAC
GATCTTGAGGATGACCTGTGGTGAACGGGGAGAGGTCTGGCTGTGCGCTCACAGACGCTGTGGCACCAGGGAAC
AAAGGAAGGGGTCAGCGTGGAACACAGAGAGCAAGACGGATGGAGATGACACCGAGACAGTGCCCTCAGAGCAG
TCTCATGCAAGTGGCAAACTCCGGAAGAAGAAAAAACAAGAAAAGCAGCACGGGAGAAGCATCG
GAAAACGGACTAGAAGATATCGATCGCATCTAGAGAGGATTGAGGACAGCACTGGGTTGAACCGTCCCGGCCCA
GCTCCCTGAGCTCCAGGAAGCACGTTCTCTACGTGGAGCACAGACACTTGAATCCAGACACAGAACTGAAAAGG
TATTTTGGTGCCCGGGCAATCCTGGGGGAGCAAAAGGCCACGGCAGAGACAACGTGTGTACCCCAAGTGACATGG
CTGACCACCCCTAAAAGCACCTGGCCCCGCTACAGCAAAACCAGGTCTGTCCATGCGGCTGCTGGAATCAAAAAA
GGCCTCTCCTTCTTTGCGTTTGAGCACAGTGAGGAGTACCAGCAGGCTCAGCACAAAGTTTCTGGTGGCCGTGGAG
TCTATGGAGCCGAACAACATCGTGGTTCTGCTCCAGACGAGCCCTTACCACGTTGACTCACTCCTGCAGCTCAGC
GATGCCTGCCGCTTTCAAGAGGATCAGGAGATGGCTCGAGACCTCGTAGAGAGAGCGCTGTACAGCATGGAATGT
GCGTTCCACCCCTGTTTCAGTCTCACCAGTGGGGCCTGCCGGCTGGATTACCGCAGACCCGAGAACAGGAGCTTC
TACCTGGCCCTCTACAAGCAGATGAGCTTCCTGGAGAAGCGAGGCTGCCCGCGCACGGCGCTGGAGTACTGCAAG
CTCATCTGAGTCTCGAGCCGGATGAGGACCCCTCTGCATGCTGCTGCTCATCGACCACCTGGCCTTGCGGGCC
CGGAACCTACGAGTACCTGATCCGCCTCTTCCAGGAGTGGGAGGCTCATCGGAACCTGTCCAGCTCCCTAATTTT
GCCTTCTCTGTTCCACTGGCGTATTTCTGCTGAGCCAGCAGACAGACCTCCCTGAGTGTGAGCAGAGCTCTGCC
AGGCAGAAGGCCTCTCTCTGATACAGCAGGCGCTCACCATGTTCCCTGGAGTCTCCTGCCCTGCTCGAGTCT
TGCAGTGTGCGGCCCGACGCCAGCGTTTCCAGTACCGCTTCTTTGGACCCAATGCTGAAATAAGCCAGCCCCCT
GCCCTGAGCCAGCTGGTGAACCTGTACCTTGGGAGGTCACACTTTCTCTGGAAGAGCCCGCCACCATGAGCTGG
CTGGAGGAGAACGTCCACGAGTTCTGCAAGCAGTGACGCCGGGGACCCAGCCGTGGAAGCCTGTGAGAACCGG
CGGAAGGTGCTCTACCAGCGTGACCCAGGAATATCCACCGCCATGTGATCCTCTCTGAGATCAAGGAAGCCGTC
GCTGCCCTGCCCCCGGACGTGACCACGCAGTCTGTGATGGGGTTTGATCCTCTGCCTCCTTCGGACACAATCTAC
TCCTACGTCAGGCCAGAGAGGCTAAGTCCTATCAGCCATGGAAACACCATTGCTCTCTTCTTCCGGTCACTGTTG
CCAACTATAACCATGGAGGGGGAGAGGCCCGAGGAAGGAGTGGCTGGGGGTCTGAACCGCAACCAGGGCCTGAAC
AGGCTGATGCTGGCTGTGCGGACATGATGGCCAACTTCCACCTCAACGACCTGGAGGCGCCGACGAGGACGAC
GCTGAGGGGGAGGGGGAGTGGGACTGAGCGTCCGAGAGGTGACCGAAAAGCCGTATGATGATGTTCCCGATTTCT
TCTGTTGGTTCGGAGTCGGCCAGTTGCCTGAAGTAGGGAAGCTGAGTGTGTCGCTCCCTGGTCCACTGTTTCTCCT
ATAAATGTAAATGGGTC

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FIGURE 4629

MSRRALRRLRGEQRGQEPLGPGALHFDLRDDDDAEEEGPKRELGVRRPGGAGKEGVRVNNRFELINIDDLEDDPV
VNGERSGCALTDAVAPGNKGRGQRGNTESKTDGDDTETVPSQSHASGKLKKKKKKQKNKKSSTGEASENGLEDI
DRILERIEDSTGLNRPGPAPLSSRKHVLYVEHRHLNPDTELKRYFGARAILGEQRPRQRQRVYPKCTWLTPKST
WPRYSKPGLSMRLLESKKGLSFFAFEHSEYQQAQHKFLVAVESMEPNIVVLLQTSPYHVD SLLQLSDACRFQE
DQEMARDLVERALYSMECAFHPLFSLTSGACRLDYRRPENRSFYALALYQMSFLEKRGCPRTALEYCKLILSLEP
DEDPLCMLLLIDHLALRARNYEYLIRLFQEWEAHRNLSQLPNFAFSVPLAYFLLSQQTDLPECEQSSARQKASLL
IQQALTMFPGVLLPLESCSVRPDASVSSHRRFFGPNAEISQPPALSQLVNLYLGRSHFLWKEPATMSWLEENVHE
VLQAVDAGDPAVEACENRRKVLYQRAPRNIHRHVILSEIKEAVAALPPDVTQTQSVMGFDPLPPSDTIYSYVRPER
LSPISHGNTIALFFRSLLPNYTMGERPEEGVAGGLNRNQGLNRLMLAVRDMANFHLNDLEAPHEDDAEGEGEW
D

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FIGURE 4630

ATGGTGACGCACGCCGCTGGCGCGAGGACCTTTTGTGAGGAGCAAAAGAAGGGATCCACCTATTTCAGTTCCAAAA
TCTAAGGAGAAGTTGATGGAGAAGCATTCCCAGGAAGCCAGGCAGGCAGACAGGGAGTCGGAGAAGCCTGTGGAC
AGCCTCCACCCGGGGGCGGGGACAGCCAAGCACCCGCCGCCGGCAGCTTCGCTGGAAGAGAAACCTGATGTAAAG
CAAAAGTCCAGCAGGAAGAAAGTGGTCGTTCCACAGATCATCATCACGCGAGCGTCGAATGAGACGCTAGTCAGT
TGCAGTTCCAGCGGGAGTGACCAGCAGAGAACCATTCTGGGAGCCGGAGGACTGGGGCCCCCTACCGGCGGCACAGG
AACCCAGTACAGCAGACGCCTATAATTACATCTCAAAGAATTAAACAAGCACCTTTGCATGGCACTCGCTACTC
CCTGCGATAGGCGTCTCGGGAACAGCCGCCTCACCTGTGAGAAGCCGAGGCCCTTCTCCAGTGCTCTCGGGGA
GGTTGCACCAGGCCACCCACCCCTGTGAGAACTGCAGCCCCCTTCTCCAGTGCTTTCGGGGAGGGTGCACCAG
GCCCCCCCCACCTTGTGAGAAGCCGTGGCCCCCTTCTCCAGTGCTCTCAGGGAGGGTGCACCAGGCCCTGCCCCG
CCGTGAGAACTGCAGTCCCCCTTCTCCAGTGCTCTCGGGGAGGGTGCACCAGGCCACCCACCCCTGTGAGAACC
TGCAGCCCCCTTCTCCAATGCTCTCGGGGAGGGTACACCAGGGTTGCCCCACCCCTGTGAGAAGCCACCGCCCCCT
TCTCCAGTGCTCTCGGGGAGGGTGCACCAGGGCTGCCCCACGCTGTAAGAAGCCGCCGCCCTTCTCCAGTGCT
CTCCAGCCCCCCCCACCCCTGTGAGAAGCCATGGCCCCCTTCTCCAGTGCTTTTGGGGAGGGTGCACCAGGGCCACC
CCACCCCTGTGAGAAGCCGTGGCCCCCTTCTCCAGTGCTTTTGGGGAGGGTACACCAGGCCCGCCCCACCCCTGTGA
GAAGCCGTGGCCCCCTTCTCCCGTGCTCTCAGGGAGGGTGCACCAGGCCCTGCCCCGCCTTGAGAACTGCAGCC
CCCTTCTCCAGTGCTCTGGGGGAGGGTGCACCAGGCCCTGCCACCCCTGTGAGAACTGCACCCCCCTTCTCCAGTG
CTCTCGGGGAGGGTGCACCAGGCCCGCCCCACCCCTGTGAGAAGCCGCAGCCCGTTCTCCATTGCCATTGTGGTCTT
GCCTTCCCCAGAGCTGCTAGCAGCTCGGTGAGGCAAGAGTGACTGGCTCAGAGAGCGAGCTTTGTGGTATTGAT
AAATGAATAAATTAGTATGTTTCATGTTGGAAGTGGCTGGCTCTGCAGAGTGATGGACAGCAGGTGGCATCTTACA
TTGTGATTTGTGGTGCACAGTTAAAACACTTCCCTTCGTTTCAGAAGGAGACAATGTGAATACTTGGAATTATA
GTGAATAAGATGCCTCCCAAACCTTGAGGAAAAGGTGAGATTCTAAGAGCTAAACGTTAAGATGTAATGTTCCAGA
ACAAAGAGGCCCAGAGTCACTGAACGGGGCCCCAGGGCTCCTAGCTTGAGTGTAACTGAGTCAGCTTATGAAAA
GGCCCCAAAGAAGAAAGTGAATGTGTGCTGGGCACATGGGACAGCCATGGCACTGAGACTTTGGAAGTGGCCTT
GCCAGCGCTGTCCTGTCTTTCTGGCCACAGATGAGGGCTCCTGATTGTGGAAGGCCACGGAAGGGACCTGAACA
CGATGGCACGAGACAAGTTATCTCCTGTGACTGCTCCTCTCCAGCAACCCTCAGCTCAGGCTAGACTTTCCCCCT
GTGTTGAGAATGCCCTGCCCTGTGTGGAAGCCTGATGCATTTAGTGACAGTGTTAGCTTTGTTAGTTTCTAGT
CTGGCCAGCAGGCTTTCCATGTGATCTGCCATTGGCTTGCTTCAGTGGCCAGTGGAGCCAGGGGTGTCCACCAGA
GTCTTGGACACAGACTTCTGAGGTGGCAGCGGGAGGGAGCCTGCTCCCTGCCACACACGTACAATTTCTAATCCA
TACAGGCCTATGTAGTATATACACACATACGCAGAGCCTTAGGAATTGTGAAAGGCCAATCAAACTTGGGGCCC
TAATTTCACTCTGCC

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FIGURE 4631

MVTHAAGARTFCEEQKKGSTYSVPKSKEKLMKHSQEARQADRESEKPVDSLHPGAGTAKHPPPAASLEEKPDVK
QKSSRKKVVPQIIITRASNETLVSCSSSGSDQRTIREPEDWGPYRRHRNPSTADAYNSHLKE

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FIGURE 4632

AGCGACTCACAAAAGGTCCTCGCGCCAGCGGCGTGCCTACCATGGCGACCGCGCGCCGCGCAGCCGCGCCCCGC
CCCTCTGGCGGGACCGGCCACCATCCTCTCGCGAGAGCATCCCGTGCAGCCGGAAGTGGGGCGGCGACCCCGGAA
GTCCCCGCCGGGTGCAGCTTGGTTCGGTTCGATCGCCGCCGGGACCTGACACCGCCCGGAGTTGGCGTCCCTTCTC
CCTCTCCGAGTGCTGCTCCTGTCAATTGTGGCCATGGACGTTACGGCGAAGCAGCTGGAGAAGCTGGCCAAGAAG
GCGGAGAAGGACTCCAAGGCGGAGCAGGCCAAAGTGAAGAAGGCCCTTCTGCAGAAAAATGTAGAGTGTGCCCGT
GTGTATGCCGAGAACGCCATCCGCAAGAAGAACGAAGGTGTGAAGTGGCTTCGGATGGCGTCCCGCGTAGACGCA
GTGGCCTCCAAGGTGCAGACAGCTGTGACTATGAAGGGGTGACCAAGAATATGGCCCAGGTGACCAAAGCCCTG
GACAAGGCCCTGAGCACCATGGACCTGCAGAAGGTCTCCTCAGTGATGGACAGGTTGAGCAGCAGGTGCAGAAC
CTGGACGTCCATACATCGGTGATGGAGGACTCCATGAGCTCGGCCACCACCCTGACCACGCCCGCAGGAGCAGGTG
GACAGCCTCATCATGCAGATCGCCGAGGAGAATGGCCTGGAGGTGCTGGACCAGCTCAGCCAGCTGCCCGAGGGC
GCCTCTGCCGTGGGCGAGAGCTCTGTGCGCAGCCAGGAGGACCAGCTGTACGGAGGTTGGCCGCCCTTGAGGAAC
TAGCCGTGCCCCGCCGGTGTGCACCGCCTCTGCCCCGTGATGTGCTGGAAGGCTCCTGTCTCTCCCCACCGCGT
CTTGCCCTTGTGCTGACCCCGCGGGCTGCGGCCGCGCAGCCACTCTGCGTCTCTCACCTGCCAGGCCTGCGTGCC
CTTAGGGTTGTTCTCTGTTCTTTTAGGTTGGGCGGTGGGTCTGTGTCCTGGTGTGAGTTTCTGCAAATTTCTGGG
GGTGATTTCTGTGACTCTGGGCCCACAGCGGGGAGGCCAAGAGGGGCCCTGTGGACTTTCACCCAGCACTGTGGG
GGCCTTCAGACTCTGGGGCAGCAGACATGCTGCTTCCCATCAGCCAGAGGGGGTCAGGGCTGCCCTGTTGCCAAA
CAACTCCCTGAGGCCTCTCCGCACCACCTCAGCGGGCAGGAGTCCCACCATGTGGACAGACATAGCCCAAGGAG
GCACCACAGGTCTATGTGTGCTGGGGGATGTGAGGTGCCACCCAACGCTGTCTGGTGGTATTTACAATGACATC
CTCCTCCTCCATCACTCCAGGGGTGGTGTCTCGGCCGCCCTACCAGCTGGCTGAGCCCCCTGGCCTCCTGCGCT
CCCTCACTTCCCTCAGTTCCCAAAGCTGCCCAGTCCATGGGGACAGAACCGTCACTCAGATCCACATTCAAGTGT
GCCCACCCTGCAGTCTTCATCCTCACTCAGCTGCTGCCTCTGGAGGTGCCTTTGGCCACATGTGCTGTGCTGTTT
GTCTCCTCGACAGGGAGCCTGTCCACCAGCAGGCTGCGGTCCCAGCGGGTGCCTCTGCAGCTCCTCCCCTTGGGC
AGCCTGGTTCTCCCGGAGGACCTTTCTTGGGGCCCTGCTTCATGACGATGCTGCCTGTGTACCCCTTACCATC
TGTAACAACCTGGGTGCCTTCCCCGACCACACCCCAATGCCTTCCCAGCTTGGAAGCCAAGGCAGCTGATGAAGG
GAGCTCAGGAGAGCCGTCTTCAGCTGGGCTGGGGTTGGGGCTGCTGTGAGGAAAACCTGCCATTGTGGCCCTGGA
GAGTCACCAGCAGCTCTTGGAAGGACTTGCTGGGAGGCTGAGAGAGGCTTTGGGCACAGCCTGCTGTCTTTTCC
ATTTCTAAAGTTTACTTCATTGTCTTGAGGCTTCCAGGTTTTGTTTTTGTGTTTGGCAAAGTAGAAAAGGCAGG
TGGTGGGCGGCTGGCAGGGAGTGCGGGTCCCCGCCCTCTTCAGTCTGCCCTCCCCTCCTCAGTCTGCCCACC
CCGTGCAGCCCATGCTGAGGCTGCAGTGGTGTGCTGGGTGTTACGTGCAGGAACGTGGAGACCCTGACGTGGGCT
CACTGCGTTTGGTTTTCTTTTCAAGACTTGGGAGCCCCAGGGAGGGGCTAGTGTGGTAGGTCCTAGACGTGGA
TCCCTCCAGCCTCCCCAAAATCAACCCTGGTGTGAGAGAACGTCCTTCTGTCCATCGTGGGTAAACAGCCTTGGG
GAGGCTGCAGAGCTCTGCAGAGCCATGGGCCAGGTGGGGCTGCCTCAGTCTGTCCCCTTGGGCACTGAGGAGAG
GGGCCCATTCACCTTCTCCTAGAAATGCTGTTGTAAATAACAAATGGATCCCTGG

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FIGURE 4633

CTTTCCGCTCGGCTGTTTTCTGCGCAGGAGCCGCAGGGCCGTAGGCAGCCATGGCGCCCAGCCGGAATGGCATG
GTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGCGCGTGGCCACGTGGTTCAACCAGCCGGCCCGTAAGATC
CGCAGACGTAAGGCCCGGCAAGCCAAGGCGCGCCGCATCGCCCCGCGCCCCGCGTCCGGTCCCATCCGGGCCATC
GTGCGCTGCCCCACGGTTCGGTACCACACGAAGGTGCGCGCCGGCCGCGGCTTCAGCCTGGAGGAGCTCAGGGTG
GCCGGCATTACACAAGAAGGTGGCCCGGACCATCGGCATTTCTGTGGATCCGAGGAGGCGGAACAAGTCCACGGAG
TCCCTGCAGGCCAACGTGCAGCGGCTGAAGGAGTACCGCTCCAACTCATCCTCTTCCCCAGGAAGCCCTCGGCC
CCCAAGAAGGGAGACAGTTCTGCTGAAGAAGTGAAGTGGCCACCCAGCTGACCGGACCGGTCATGCCCGTCCGG
AACGTCTATAAGAAGGAGAAAAGCTCGAGTCATCACTGAGGAAGAGAAGAATTTCAAAGCCTTCGCTAGTCTCCGT
ATGGCCCGTGCCAACGCCCCGGCTCTTCGGCATAACGGGCAAAAAGAGCCAAGGAAGCCGCAGAACAGGATGTTGAA
AAGAAAAATAAAGCCCTCCTGGGGACTTGGAATCAGTCGGCAGTCATGCTGGGTCTCCACGTGGTGTGTTTCGT
GGGAACAAGTGGGCCTGGGATGGGGCTTCACTGCTGTGACTTCCTCCTGCCAGGGGATTTGGGGCTTTCTTGAAA
GACAGTCCAAGCCCTGGATAATGCTTTACTTTCTGTGTTGAAGCACTGTTGGTTGTTTGGTTAGTGACTGATGTA
AAACGGTTTTTCTTGTTGGGGAGGTTACAGAGGCTGACTTCAGAGTGGACTTGTGTTTTTTCTTTTTAAAGAGGCAA
GGTTGGGCTGGTGCTCACAGCTGTAATCCCAGCACTTTGAGGTTGGCTGGGAGTTCAAGACCAGCCTGGCCAACA
TGTCAGAACTACTAAAAATAAAGAAATCAGCCATGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4634

MAPSRNGMVLKPHFHKDWQRRVATWFNQPARKIRRRKARQAKARRIAPRPASGPIRPIVRCPTVRYHTKVRAGRG
FSLEELRVAGIHHKVARTIGISVDPRRRNKSTESLOANVQRLKEYRSKLILFPRKPSAPKKGDSSAEELKLATQL
TGPVMPVRNVYKKEKARVITEEEKNFKAFASLRMARANARLFGIRAKRAKEAAEQDVEKKK

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FIGURE 4635

CTGGGTCCTGGCCTTTGGGCATCATCCAGCGCCATCGGCCTGGCGCTTCAGCCAACGCGGGAGTGGATGGGCCCC
TTCTTCTTCGCAGACAGCGTTTCGGCCGCTGCCCGGGCTCTAGGCGCGGCCGGACGGCCCCAGTCTGGAGGGTTTCGG
GGCGGAGGCCCCGGGGGGGTGCGCGCGCCGGGGTCCGGCCTCTCACTCGCTCCCCCTCTCGTCCGCAGCCGCAGGG
CCGTAGGCAGCCATGGCGCCAGCCGGAATGGCATGGTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGGCGC
GTGGCCACGTGGTTCAACCAGCCGGCCCGTAAGATCCGCAGACGTAAGGCCCGGCAAGCCAAGGCGCGCCGCATC
GCCCCGCGCCCCGCGTCGGGTCCCATCCGGCCCATCGTGCGCTGCCCCACGGTTCGGTACCACACGAAGGTGCGC
GCCGCGCGGGCTTCAGCCTGGAGGAGCTCAGGGTGGCCGGCATTACACAAGAAGGTGGCCCCGACCATCGGCATT
TCTGTGGATCCGAGGAGGCGGAACAAGTCCACGGAGTCCCTGCAGGCCAACGTGCAGCGGCTGAAGGAGTACCGC
TCCAAACTCATCTCTTCCCCAGGAAGCCCTCGGCCCCCAAGAAGGGAGACAGTTCTGCTGAAGAACTGAAACTG
GCCACCCAGCTGACCGGACCGGTTCATGCCCGTCCGGAACGTCTATAAGAAGGAGAAAGCTCGAGTCATCACTGAG
GAAGAGAAGAATTTCAAAGCCTTCGCTAGTCTCCGTATGGCCCGTGCCAACGCCCCGGCTCTTCGGCATAACGGGCA
AAAAGAGCCAAGGAAGCCGCGAGAACAGGATGTTGAAAAGAAAAATAAAGCCCTCCTGGGGACTTGGAATCAGTC
GGCAGTCATGCTGGGTCTCCACGTGGTGTGTTTCGTGGGAACAACCTGGGCCTGGGATGGGGCTTCACTGCTGTGA
CTTCTCCTGCCAGGGGATTTGGGGCTTTCTTGAAAGACAGTCCAAGCCCTGGATAATGCTTTACTTTCTGTGTT
GAAGCACTGTTGGTTGTTTGGTTAGTGACTGATGTAAAACGGTTTTCTTGTGGGGAGGTTACAGAGGCTGACTTC
AGAGTGGACTTGTGTTTTTTCTTTTTAAAGAGGCAAGGTTGGGCTGGTGCTCACAGCTGTAATCCCAGCACTTTG
AGGTTGGCTGGGAGTTCAAGACCAGCCTGGCCAACATGTGAGAACTACTAAAAATAAAGAAATCAGCCATGAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 4636

MAPSRNGMVLKPHFHKDWQRRVATWFNQPARKIRRRKARQAKARRIAPRPASGP I R P I V R C P T V R Y H T K V R A G R G
F S L E E L R V A G I H K K V A R T I G I S V D P R R R N K S T E S L Q A N V Q R L K E Y R S K L I L F P R K P S A P K K G D S S A E E L K L A T Q L
T G P V M P V R N V Y K K E K A R V I T E E E K N F K A F A S L R M A R A N A R L F G I R A K R A K E A A E Q D V E K K K

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FIGURE 4637

TAGTTTTATCTCTATACCCAAAATGGAGGTTAAAAGTTACACTAAAAATAACACGATTGCACCAAAGAAAGCGTC
CCATCGTATCCTGTCTAGACACGTCGGACGAGGAGGACGCGAGTGTACCCGTGGGGACAGGAGAGAAGCTGAGACT
CTCGGCACATACGATATTGCCTGGTAGTAAGACACGAGAGCCTTCTAATGCCAAGCAGCAGAAGGAAAAAATAA
AGTGAAGAAGCGAAAGAAAGAAACAAAAGGCAGAGAGGTTTCGCTTCGGAAAAGCGGAGCGACAAGTTCTGCTC
CTCGGAGTCGGAGAGCGAGTCCTCAGAGAGTGGGGAGGATGACAGGGACTCTCTGGGGAGCTCTGGCTGCCTCAA
GGGTCCCCGCTGGTGTGAAGGACCCCTCCCTGTTTCAGCTCCCTCTCTGCTCCTCCACCTCGTCTCACGGGAG
CTCTGCCGCCAGAAAGCAGAACCCAGCCACACAGACCAGCACACCAAGCACTGGCGGACAGACAATTGGAAAAC
CATTCTTCCCCGCTTGGTCAGAGGTCAGTTCTTTATCAGACTCCACAAGGACGAGACTGACAAGCGAGTCTGA
CTACTCCTCTGAGGGCTCCAGTGTGGAATCGCTGAAGCCAGTGAGGAAGAGGCAGGAGCACAGGAAGCGAGCCTC
CCTGTCTGGAGAAGAAGAGCCCCCTTCTGTCCAGCGCGGAGGGCGCTGTCCCCAACTGGACAAGGAGGGGAAAGT
TGTCAAAAACATAAAAAACAAACACAAAAACAAGGAGAAGGGACAGTGTTCATCAGCCAAGAGCTGAA
GTTGAAAAGTTTACTTACGAATATGAGGACTCCAAGCAGAAGTCAGATAAGGCTATACTGTTAGAGAATGATCT
TTCCACTGAAAAACAAGCTAAAAAGTGTTAAAGCACGATCGCGACCCTTTAAAAAGAAGAGAACTTAGCAAAAT
GAAATTAGAAGAAAAAGAAATGGCTCTTTAAAGATGAAAAATCACTGAAGAGAATCAAAGACACAAACAAAGACAT
CAGCAGGTCTTTCCGAGAAGAGAAAAGACCGTTTCAATAAAGCAGAAAAGGAGAGATCGCTGAAGGAAAAGTCTCC
GAAAGAAGAAAACTGAGACTGTACAAAGAGGAGAGAAAGAAGAAATCAAAGACCGGCCCTCAAATTAGAGAA
GAAGAATGATTTAAAAGAGGACAAAATTTCAAAGAGAAGGAGAAGATTTTTAAAGAAGATAAAGAAAAACTCAA
AAAAGAAAAGGTTTATAGGGAAGATTCTGCTTTTGACGAATATTGTAACAAAAATCAGTTTCTGGAGAATGAAGA
CACCAAAATTTAGCCTTTCTGACGATCAGCGAGATCGGTGGTTTTCTGACTTGTCCGATTATCCTTTGATTTCAA
AGGGGAGGACAGCTGGGACTCGCCAGTGACAGACTACAGGGACATGAAGAGCGACTCTGTGGCCAAGCTCATCTT
GGAGACGGTGAAGGAGGACAGCAAGGAGAGGAGGCGGGACAGCCGGGCCGGGAGAAGCGAGACTACAGAGAGCC
CTTCTTCCGAAAGAAGGACAGGGACTATTTGGATAAAAACTCTGAGAAGAGGAAAGAGCAGACTGAAAAGCATAA
AAGTGTCCCTGGCTACCTTTTCGAAAAGGACAAGAAGAGGAGAGAGTCCGAGAGGCCGGGCGGGACAGAAAAGGA
CGCCCTGGAGAGCTGCAAGGAGCGCAGGGACGGCAGGGCCAAGCCCGAGGAGGCGCACCAGGAGGAGCTGAAGGA
GTGTGGCTGCGAGAGTGGCTTCAAGGACAAGTCCGACGGCGACTTTGGGAAGGGCCTGGAGCCGTGGGAACGGCA
CCACCCAGCAGCAGAGAAGGAGAAGAAGGATGGCCCCGATAAGGAAAGGAAGGAGAAGACAAAACCAGAAAGATA
CAAAGAGAAATCCAGTGACAAGGACAAAAGTGAGAAATCAATCCTGGAAAAATGTCAGAAGGACAAAAGATTGA
TAAATGTTTTTAAAGAGAAAAAAGATACCAAGGAAAAACATAAAGACACACATGGCAAAGACAAAGAAAGGAAAGC
GTCTCTCGACCAAGGGAAAGAGAAGAAGGAGAAGGCTTTCCCTGGGATCATCTCAGAAGACTTCTCTGAAAAAAA
AGATGACAAGAAAGGCAAAGAGAAAAGCTGGTACATCGCAGACATCTTCACAGATGAGAGTGAGGACGACAGAGA
CAGCTGCATGGGGAGCGGGTTCAAGATGGGAGAGGCCAGCGACTTGCCGAGGACGGACGGCCTCCAGGAGAAGGA
GGAAGGACGGGAGGCCTATGCCTCCGACAGACACAGGAAGTCTTCTGACAAGCAGCACCTTGAGAGGCAGAAGGA
CAAGGAGCCCAGAGACAGGAGAAAGGACCGAGGGGCTGCCGACGCGGGGAGAGACAAAAAGAGAAAGTCTTTGA
AAAGCACAAAGGAGAAGAAGGATAAAGAGTCCACAGAAAAAGTACAAGGACAGGAAGGACAGAGCCTCAGTGGACTC
CACGCAAGATAAGAAAAATAAACAGAAGCTCCCCGAGAAGGCTGAAAAGAAGCACGCTGCCGAAGACAAGGCTAA
AAGCAAACACAAAGAGAAGTCCGACAAAGAACATTCCAAGGAGAGGAAGTCTCGAGAAGTGCCGACGCGGAAAA
AAGCCTGCTTGAAGGTTGGAAGAAGAGGCTCTCCATGAGTACAGAGAAGACTCCAACGATAAAATCAGCGAGGT
CTCCTCTGACAGCTTCACGGACCGAGGGCAGGAGCCGGGGCTGACTGCCTTCTGGAGGTCTCTTTACGGAGCC
ACCTGGAGACGACAAGCCGAGGGAGAGCGCTGCCTCCCTGAGAAGCTGAAAGAGAAGGAGAGGCACAGACACTC
CTCATCTTCATCCAAGAAGAGCCACGACCGAGAGCGCAAGAAAGAGAAGGCCGAGAAGAAAGAGAAGGGCGA
AGATTACAAGGAGGGCGGTAGCAGGAAGGACTCCGGCCAGTACGAAAAGGACTTCTGGAGGCGGATGCTTACGG
AGTTTCTTACAACATGAAAGCTGACATAGAAGATGAGCTAGATAAAACCATGAATTGTTTTCTACCGAAAAGAA
AGATAAAAAATGATTCCGAGAGAGAACCTTCCAAG

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FIGURE 4638

ACTTGCCTGTCACTCAGCCTGGACGCGCTTCTTCGGGTGCGGGGTGCACTCCGGCCCCGGCTCCCGCCTCGGCC
CGATGGACGCGCGCTTCTCCTCGTCTCGGGCTGTTGGCCAGAGCCTCTGCCTGTCTTTGGGGTTCCTGGAT
GGAGGAGGCCACACCTGTACCCCTGGCGCCGGGCGCCTGCCCTGAGCCGCTGCGGAGGGCCTGGGTCATCC
CCCCGATCAGCGTATCCGAGAACCACAAGCGTCTCCCTACCCCTGGTTGAGATCAAGTCGGACAAGCAGCAGC
TGGGCAGCGTCATCTACAGCATCCAGGGACCCGGCGTGGATGAGGAGCCCCGGGGCGTCTTCTCTATCGACAAGT
TCACAGGGAAGGTCTTCTCAATGCCATGCTGGACCGCGAGAAGACTGATCGCTTCAGGCTAAGAGCGTTTGCCC
TGGACCTGGGAGGATCCACCTGGAGGACCCACGGACCTGGAGATTGTAGTTGTGGATCAGAATGACAACCGGC
CAGCCTTCTGTCAGGAGGCGTTCCTGGCCGCGTGTGAGGGTGCAGTCCCAGGCACCTATGTGACCAGGGCAG
AGGCCACAGATGCCGACGACCCCGAGACGGACAACGCAGCGCTGCGGTTCTCCATCCTGCAGCAGGGCAGCCCCG
AGCTCTTCAGCATCGACGAGCTCACAGGAGAGATCCGCACAGTGAAGTGGGGCTGGACCGCGAGGTGGTCGCGG
TGTACAATCTGACCTGCAGGTGGCGGACATGTCTGGAGACGGCCTCACAGCCACTGCCTCAGCCATCATCACC
TTGATGACATCAATGACAATGCCCCGAGTTCACCAGGGATGAGTTCTTCATGGAGGCCATAGAGGCCGTCAGCG
GAGTGGATGTGGGACGCTGGAAGTGGAGGACAGGGACCTGCCAGGCTCCCCAACTGGGTGGCCAGGTTACCA
TCCTGGAAGGCGACCCCGATGGGCAGTTCACCATCCGCACGGACCCCAAGACCAACGAGGGTGTCTGTCCATTG
TGAAGGCCCTGGACTATGAGAGCTGTGAACACTACGAACCTCAAAGTGTGCGTGCAGAATGAGGCCCCGCTGCAGG
CGGCTGCCCTTAGGGCTGAGCGGGGCCAGGCCAAGGTCCGCGTGCATGTGCAGGACACCAACGAGCCCCCGTGT
TCCAGGAGAACCCACTTCGGACACAGCCTAGCAGAGGGGGCACCCCAAGCACTCTGGTGGCCACCTTCTCTGCC
GGGACCTGACACAGAGCAGCTGCAGAGGCTCAGTACTCCAAGGACTACGACCCGGAAGACTGGCTGCAAGTGG
ACGCAGCCACTGGCCGGATCCAGACCCAGCACGTGCTCAGCCCGCGCTCCCCCTTCTCAAGGGCGGCTGGTACA
GAGCCATCGTCTGGCCAGGATGACGCTCCAGCCCCGACCGCCACCGGCACCCTGTCCATCGAGATCCTGG
AGGTGAACGACCATGCACCTGTGCTGGCCCCGCCGCCCGGGCAGCCTGTGCAGCGAGCCACACCAAGGCCCAG
GCCTCCTCCTGGGCGCCACGGATGAGGACCTGCCCCCCCCACGGGGCCCCCTTCCACTTCCAGCTGAGCCCCAGGC
TCCCAGAGCTCGGCCGGAAGTGGAGCCTCAGCCAGGTCAACGTGAGCCACGCGCGCTGCGGCCGCGACACCAGG
TCCCCGAAGGCTGCACCGCTCAGCCTGCTGCTCCGGGACTCGGGGCAGCCGCCCCAGCAGCGCGAGCAGCCTC
TGAACGTGACCGTGTGCCGCTGCGGCAAGGACGGCGTCTGCCTGCCGGGGGCCGAGCGCTGCTGGCGGGGGCA
CAGGCCTCAGCCTGGGCGCACTGGTCATCGTGTGTCAGCGCCCTCCTGCTGCTGGTGTGCTGCTCCTGCTCGTGG
CACTCCGGGCGCGGTTCTGGAAGCAGTCTCGGGGCAAGGGGCTGCTGCACGGCCCCAGGACGACCTTCGAGACA
ATGTCCTCAACTACGATGAGCAAGGAGGCGGGGAGGAGGACCAGGACGCCTACGACATCAGCCAGCTGCGTCACC
CGACAGCGCTGAGCCTGCCTCTGGGACCGCGCCACTTCGCAGAGATGCCCCGAGGGCCGCTGCACCCCAAGC
CACCCGAGTGCTGCCACCAAGCCCCCTGGACATCGCCGACTTCATCAATGATGGCTTGGAGGCTGCAGATAGTG
ACCCAGTGTCGCGCTTACGACACAGCCCTCATCTATGACTACGAGGGTGACGGCTCGGTGGCGGGGACGCTGA
GCTCCATCCTGTCCAGCCAGGGCGATGAGGACCAGGACTACGACTACCTCAGAGACTGGGGGCCCCGCTTCGCCC
GGCTGGCAGACATGTATGGGACCCGTCGCGGTTGGAGTACGGGGCCAGATGGGACCACCAGGCCAGGGAGGGTC
TTTCTCCTGGGGCACTGCTACCCAGACACAGAGGCCGGACAGCCTGACCCCTGGGGCGCAACTGGACATGCCACTC
CCCGCCTCGTGGCAGTGATGGCCCCTGCAGAGGCAGCCTGAGGTACCGGGCCCCGACCCCTGGGCCTGGGGC
AGCCTCCTTCTGTAGGCGAGGGCCCAAGTCTGGGGGCGAAGCTGAGTGTGGATGGGGCGGCCAGGAAGAGGCC
CCTTCTGCCCCGGGTGGGAAGAGTTTCTCTCCATCGGCCCCATGCGGGTCACCTCCCTAGTCCCACCTTTGCCTC
CTACCAGTGAACCTCATCTTGTATGAAAGACAGCAACCTCCTGGGTAAATCTGAATGAAAAACGTGCTAGTCTC
TTTCATGCAAAAAAAAAAAAAAAAAA

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FIGURE 4639

MDAAFLVLGLLAQSLCLSLGVPGWRRPTTLYPWRRAPALSRVRRRAWVIPPISVSENHKRLPYPLVQIKSDKQQL
GSIYYSIQGPVDEEPRGVFSIDKFTGKVFLNAMLDREKTD RFRLRAFALDLGGSTLEDPTDLEIVVVDQNDNRP
AFLQEAF TGRVLEGAVPGTYVTRAEATDADDPETDNAALRFSILQOGSPELFSIDELTGEIRTVQVGLDREVVAV
YNLTQVADMSGDGLTATASAIITLDDINDNAPEFTRDEFFMEAEAVSGVDVGRLEVEDRDLPGSPNWWARFTI
LEGDPDGQFTIRTDPKTNEGVL SIVKALDYESCEHYELKVS VQNEAPLQAAALRAERGQAKVRVHVQDTNEPPVF
QENPLRTSLAEGAPPGLVATFSARDPDTEQLQRLSY SKDYDPEDWLQVDAATGRIQTQHVLSPASPF LKGGWYR
AIVLAQDDASQPRTATGTL SIEILEVNDHAPVLAPPPPGSLCSEPHQGPGLLLGATDEDLP PHGAPFHFQLSPRL
PELGRNWSLSQVNVSHARLRPRHQVPEGLHRLSLLL RDSGQPPQOREQPLNVTVCRCGKDGVC LFGAAALLAGGT
GLSLGALVIVLASALLLVLLVLLVALRARFWKQSRG KLLHGPQDDLRDNV LNYDEQGGGEEDQDAYDISQLRHP
TALSLPLGPPPLRRDAPQGR LHPQPPRVLPTSPLDIADFINDGLEAADS DPSVPPYDTALIYDYEGDGSVAGTLS
SILSSQGDEDQDYDLRDWGP RFARLADMYGHPCGLEYGARWDHQAREGLSPGALLPRHRGRTA

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FIGURE 4640

AGTTCTGTGGAGCAGCGGTGGCCGGCTAGGATGGGCTGTCTCTGGGGTCTGGCTCTGCCCCCTTTCTTCTTCTGC
TGGGAGGTTGGGGTCTCTGGGAGCTCTGCAGGCCCCAGCACCCGCAGAGCAGACACTGCGATGACAACGGACGAC
ACAGAAAGTGCCCGCTATGACTCTAGCACCCGGGCCACGCCGCTCTGGAAACTCAAACGCTGAGCGCTGAGACCTCT
TCTAGGGCCTCAACCCCAGCCGGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAATTTCCCTTGCAAGA
GAGACCAGGAGTTTCACAAAAACATCTCCCAACTTCATGGTGCTGATCGCCACCTCCGTGGAGACATCAGCCGCC
AGTGGCAGCCCCGAGGGAGCTGGAATGACCACAGTTCAGACCATCACAGGCAGTGATCCCGAGGAAGCCATCTTT
GACACCTTTTGACCCGATGACAGCTCTGAAGAGGCAAAGACACTCACAATGGACATATTGACATTGGCTCACACC
TCCACAGAAGCTAAGGGCCTGTCTCAGAGAGCAGTGCCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCA
CGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTACGGGCCTCAGAGAGCAGC
GCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTATGGTCCCCGGGATCTGATGTCACTCTCCTCGCTGAA
GCCCTGGTGACTGTACAAACATCGAGGTTATTAATTGCAGCATCACAGAAATAGAAACAACAACCTTCCAGCATC
CCTGGGGCCTCAGACATAGATCTCATCCCCACGGAAGGGGTGAAGGCCTCGTCCACCTCCGATCCACCAGCTCTG
CCTGACTCCACTGAAGCAAAACCACACATCACTGAGGTACAGCCTCTGCCGAGACCCTGTCTCAGCCCTCTCT
GTTGAGACACCAAGTTACGTCAAAGTCTCAGGAGCAGCTCCGGTCTCCATAGAGGCTGGGTGAGCAGTGGGCAAA
ACAACCTTCTTTGCTGGGAGCTCTGCTTCTCTACAGCCCCCTCGGAAGCCGCCCTCAAGAACTTACCCCTTCA
GAGACACCGACCATGGACATCGCAACCAAGGGGCCCTTCCCCACCAGCAGGGACCCTCTTCTTCTGTCCCTCCG
ACTACAACCAACAGCAGCCGAGGGACGAACAGCACCTTAGCCAAGATCACAACCTCAGCGAAGACCACGATGAAG
CCCCAACAGCCACGCCCACGACTGCCCGGATCGAGGCCGACCACAGACGTGAGTGCAGGTGAAAATGGAGGTTT
CCTCCTCCTGCGGCTGAGTGTGGCTTCCCCGGAAGACCTCACTGACCCAGAGTGGCAGAAAGGCTGATGCAGCA
GCTCCACCGGGAACCTCCACGCCCACGCGCCTCACTTCCAGGTCTCCTTACTGCGTGTGAGGAGAGGCTAACGGAC
ATCAGCTGCAGCCAGGCATGTCCCGTATGCCAAAAGAGGGTGCTGCCCTAGCCTGGGCCCCCACCACAGACTG
CAGCTGCGTTACTGTGCTGAGAGGTACCCAGAAGGTTCCCATGAAGGGCAGCATGTCCAAGCCCCTAACCCAGA
TGTGGCAACAGGACCCTCGCTCACATCCACGGAGTGATGTATGGGGAGGGGCTTCACCTGTTCCAGAGGTGT
CCTTGGACTIONCTTGGCACATGTTCTGTGTTTTAGTAAAGAGAGACCTGATCACCCATCTGTGTGCTTCCATCC
TGCATTAAAATTCACCTCAGTGTGGCCCAG

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FIGURE 4641

CAGAGGCTGGGAGGCGGCAGAAATGCAGCCAGAGGAGGGCACAGGCTGGCTGCTGGAGCTGCTGTCCGAGGTGCAG
 CTGCAACAGTACTTCTCTGCGGCTCCGAGATGACCTCAACGTCACCCGCTGTCCCACTTTGAGTACGTCAAGAAT
 GAGGACCTGGAGAAGATCGGCATGGGTCTGGCCTGGCCAGCGGCGGCTGTGGGAGGCTGTGAAGAGGAGGAAGGCC
 TTGTGCAAACGCAAGTCGTGGATGAGTAAGXX
 XXX
 XXX
 XXX
 SAAGCCATGGACGACTTCATCCGGGAGGTCAATGCCATGCACTCGCTCGACCACCGAAACCTCATCCGCCCTCTAC
 GGGGTGGTGCTCACGCCGCCCATGAAGATGGTGACAGAGCTGGCACCTCTGGGATCGTTGTTGGACCGGCTACGT
 AAGCACCAGGGCCACTTCTCTGGGGACTCTGAGCCGCTACGCTGTGCAGGTGGCTGAGGGCATGGGCTACCTG
 GAGTCCAAGCGCTTTATTACCGTGACCTGGCTGCCCGCAATCTGCTGTTGGCTACCCGCGACCTGGTCAAGATC
 GGGGACTTTGGGCTGATGCGGAGCACTACCTCAGAATGACGACCATTACGTCATGCAGGAACATCGCAAGGTGCC
 TTCGCTGGTGTGCCCCGAGAGCCTGAAGACACGCACCTTCTCCCATGCCAGCGACACCTGGATGTTCTGGGGTG
 AACTGTGGGAAATGTTACCTACGGCCAGGAGCCCTGGATCGGCCCTCAACGGCAGTCAGATCCTGCATAAGATC
 GACAAGGAGGGGGAGCGGCTGCCCGGGCCCGAGGACTGTCCCCAGGACATCTACAACGTCATGGTCCAGTGCTGG
 GCTCACAAGCCAGAGGACAGACCCACGTTTGTGGCCCTGCGGGACTTCCTGCTGGAGGGCCAGCCCACAGACATG
 CGGGCCCTTCAGGACTTTGAGGAACCGGACAAGCTGCACATCCAGATGAATGATGTATCACCCTCATCGAGGGA
 AGGGCCGAGAACTACTGGTGGCGTGGCCAGAACACAGGACGCTGTGTGTGGGGCCCTTCCCTCGCAACGTGGTG
 ACCTCCGTGGCCGGCCTGTGCGCCCAAGGACATCAGCCAGCCCTGCAGAACAGCTTCATCCACACAGGGCATGGC
 GACAGTGACCCCGCCACTGCTGGGGCTTCCCGGACAGGATTGACGAACCTGTATCTGGGAAACCCCATGGACCCC
 CCCGACCTCCTGAGCGTGGAACCTGAGCACCTCCCGGCCCCCCCAGCATCTAGGAGGGGTGAAAAAACCAACCTAT
 GACCCTGTGAGCGAGGACCAAGACCCCTTGTCCAGCGACTTCAAGAGGCTGGGCCTGCGGAAGCCAGGCCTGCCC
 CGAGGGCTGTGGCTGGCGAAGCCCTCGGCGCGGGTGCCGGGCACCAAGGCCAGCCGAGGCAGCGGGGCTGAGGTG
 ACGCTCATCGACTTCGGTGAGGAGCCCGTGGTCCCGGCCCTACGGCCCTGCGCGCCCTCCCTGGCGCAGCTGGCC
 ATGGACGCCTGCTCCCTGCTGGACGAGACCCGCTCAGAGCCCCACGCGGGCACTGCCCCGGCCCTGCACCCC
 ACGCCTGTGGTGGACTGGGACGCACGCCCGCTGCCCCCCCCGCGCCCTATGACGACGTGGCCAGGATGAGGAT
 GACTTTGAGATCTGCTCCATCAACAGCACCCCTCGTGGGCGCGGGGTCCCTGCCGGGGCCAGCCAGGGCCAGACC
 AACTACGCCTTTGTGCCTGAGCAGGCGCGGCCGCCCCCTCCCTGGAGGACAACCTGTTCTCCCGCCCCAGGGT
 GGGGGCAAGCCGCCAGCTCCGCACAGACCGCAGAGATCTTCCAGGCCTACAGCAGGAGTGCATGAGGCAACTG
 CAGGCTCCGGCCGGCTCCCCGGCCCCCTCTCCAGCCCGGGGGGTGACGACAAGCCCCAGGTGCCTCCTCGGGTA
 CCCATCCCCCTCGGCCCACGCGCCACACGTCCAGCTGTCTCCAGCCCCCGGGCGAGGAGGAGACCAGCCAG
 TGGCCTGGACCTGCTTCCCTCCCGGGTGCTCCGCGGGAGCCCTGTCCCTCAAGGCTCGAGGACACCCAGC
 CCCCTGGTACCACCTGGCAGCTCCCGCTGCCACCCGGCTCTCAAGCTCACCTGGGAAGACCATGCCACCACC
 CAGAGCTTTGCCTCAGACCCCAAGTACGCCACCCCCAGGTGATCCAGGCCCTGGCCCGCGGGCTGGTCCCTGC
 ATCCTTGCCCATCTGTCTGGGATTGTGCAAGAAGGTGAGCAGCACCCACTATTACTTGCTTGCCCGAGCGACCA
 TCCTACCTGGAGCTGCTACCAGCGCTTCTGCGTGAGTGCCAGAGCCCCGATGAGCCTACC

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FIGURE 4642

GCGGAGCGAGAGGCTGAGAGAGTCGGAGACACTATCCGCTTCCATCCGTCGCGCAGACCCCTGCCGGAGCCGCTGC
CGCTATGGATGATCGAGAGGATCTGGTGTACCAGGCCAAGCTGGCCGAGCAGGCTGAGCGATACGACGAAATGGT
GGAGTCAATGAAGAAAGTAGCAGGGATGGATGTGGAGCTGACAGTTGAAGAAAGAAACCTCCTATCTGTTGCATA
TAAGAATGTGATTGGAGCTAGAAGAGCCTCCTGGAGAATAATCAGCAGCATTGAACAGAAAGAAACAAGGG
AGGAGAAGACAAGCTAAAAATGATTCTGGGAATATCGGCAAATGGTTGAGACTGAGCTAAAGTTAATCTGTTGTGA
CATTCTGGATGTACTGGACAAACACCTCATTCCAGCAGCTAACACTGGCGAGTCCAAGGTTTTCTATTATAAAAT
GAAAGGGGACTACACAGGTATCTGGCAGAAATTTGCCACAGGAAACGACAGGAAGGAGGCTGCGGAGAACAGCCT
AGTGGCTTATAAAGCTGCTAGTGATATTGCAATGACAGAACTTCCACCAACGCATCCTATTTCGCTTAGGTCTTGC
TCTCAATTTTTCCGTATTCTACTACGAAATTTCTTAATTTCCCTTGACCGTGCCTGCAGGTTGGCAAAAGCAGCTTT
TGATGATGCAATTGCAGAACTGGATACGCTGAGTGAAGAAAGCTATAAGGACTCTACACTTATCATGCAGTTGTT
ACGTGATAATCTGACACTATGGACTTCAGACATGCAGGGTGACGGTGAAGAGCAGAATAAAGAAGCGCTGCAGGA
CGTGGAAGACGAAAATCAGTGAGACATAAGCCAACAAGAGAAACCATCTCTGACCACCCCTCCTCCCCATCCCA
CCCTTTGGAAACTCCCCATTGTCACTGAGAACCACCAAATCTGACTTTTACATTTGGTCTCAGAATTTAGGTTCC
TGCCCTGTTGGTTTTTTTTTTTTTTTTTTTTTAAACAGTTTTCAAAGTTCTTAAAGGCAAGAGTGAATTTCTGTG
GATTTTACTGGTCCCAGCTTTTAGGTTCTTTAAGACACTAACAGGACTACATAGAGGCTTTTTCAGCATTACTGT
GTCGTCTCCGTGCCAGATGTGGCAAGATCACCATTAGCAAATGGAAATTACATTTGAAAGCCATTAGACTTATAG
GTGATGCAAGCATCTAAGAGAGAGGTTAATCACACTATAGAGGCATAAGTGGTATCAGTTTTCATTTTTCTAATT
GTTTAAACTGTGTTTTATACCAGTGTTTGCAAGTAATTGGGTGTTAGCTTGAGATGGTTAAAGGTGGTTTGGGGA
GGGACTTCGTTGTAATGGTTTTGCTGTAAAAAATGTTTCCAACCTCCGCTGAAATGTTGCTGAAAAGCATGGTGTCT
GGTAACAGTTCAACAATCCGTGGCTGCTCATTCTTGCCTACTTTACTCTCCCACTGAAGCAGGTTAGCGTTGAAG
GTGGTATGGAAGCCTGCATGCCTGTTCAATTCTTTTGTTCCTTCTCCTTCCCCCTCCCCCTACCTCCTTCCCC
TCACTCCTCCCCTCCTTCGCTCGCTCAACCTCTTTTGTTCAGTATGTGTAACCTGAAGCTAATTTGTACTACTGG
ATATCTGACTGGAGCCACAGATACAGAATCTGTATTGTTCTTACTGAAACACAGCATGGAATTAACATTAAACTT
AAATAAAACAAACCTAAATTAAAAA

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FIGURE 4643

MDDREDLVYQAKLAEQAERYDEMVESMKKVAGMDVELTVEERNLLSVAYKNVIGARRASWRIISSIEQKEENKGG
EDKCLKMIREYRQMVETELKLICCDILDVLDKHLIPAANTGESKVFYYKMGDYHRYLAEFATGNDRKEAAENSLV
AYKAASDIAMTELPPTHPIRLGLALNFSVFYYEILNSPDRACRLAKAAFDDAIAELDTLSEESYKDS^TLIMQLLR
DNLT^LWTSDMQGDGEEQNKEALQDVEDENQ

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FIGURE 4644A

CTCGCCCCCTCCGCGCTCGCAACTTCGGCCTCCCCCGGCTCCCGCCCGCTCTCCCTCCTTTGTTGCGCGATGAGGG
TCGGGTTTCGGATCTGACCGAGCCGCCGCCGGGATGGAGCCGCTCAGCCACCGGGGCTGCCGCGCCTGTCTT
GGATCGACACCCTCTACAGCAACTTCAGCTACGGGACGGACGAGTACGACGGAGAGGGGAATGAGGAGCAGAAGG
GGCCCCCGGAGGGCTCAGAGACCATGCCGTACATCGATGAGTCGCCCACCATGTCCCCGCAGCTCAGCGCCCGCA
GCCAGGGCGGGGGGATGGCGTCTCCCCGACTCCACCTGAGGGACTGGCTCCTGGGGTGGAAAGCAGGGAAAGGCC
TGGAGATGAGGAAGCTGGTTCTCTCGGGGTTCCTGGCCAGCGAAGAGATCTACATTAACCAGCTGGAAGCCCTGT
TGCTGCCCATGAAACCCCTGAAGGCCACCGCCACCACCTCCCAGCCCGTGCTCACCATCCAGCAGATCGAGACCA
TCTTCTACAAGATCCAGGACATCTATGAGATCCACAAGGAGTTCTATGACAACCTGTGCCCCAAGGTGCAACAGT
GGGACAGCCAGGTCACCATGGGCCACCTCTTCCAGAAGCTGGCCAGCCAGCTCGGTGTGTACAAAGCGTTTGTCG
ATAACTATAAAGTCGCTCTGGAGACAGCTGAGAAGTGACAGCCAGTCCAACAACCAGTTCCAGAAGATCTCAGAGG
AACTCAAAGTGAAAGGTCCCAAGGACTCCAAGGACAGCCACACGTCTGTACCATGGAAGCTCTGCTCTACAAGC
CCATTGACCGGGTCACTCGGAGCACCCTAGTCTTACACGACCTGCTGAAGCACACACCTGTGGACCACCCCGACT
ACCCGCTGCTGCAGGATGCCCTCCGCATCTCCCAGAACTTCCTGTCCAGCATCAACGAGGACATCGACCCCGCC
GGACTGCAGTGACAACGCCCAAGGGGGAGACGCGACAGCTGGTGAAGGACGGCTTCCTGGTGGAAAGTGTGAGAGG
CTCCCCGAAGCTGCGGCACGTCTTCTCTTTACAGATGTCCTACTGTGTGCCAAGCTGAAGAAGACCTCTGCAG
GGAAGCACCAGCAGTATGACTGTAAGTGGTACATCCCCCTGGCCGACCTGGTGTTCATCCCCGAGGAATCTG
AGGCCAGCCCCCAGGTGCACCCCTTCCCAGACCATGAGCTGGAGGACATGAAGATGAAGATCTCTGCCCTCAAGA
GTGAAATCCAGAAGGAGAAAGCCAACAAGGCCAGAGCCGGGCCATCGAGCGCTGAAGAAGAAGATGTTTGAGA
ATGAGTTCCTGCTGCTGCTCAACTCCCCACAATCCCGTTCAGGATCCACAATCGGAATGGAAGAGTTACCTGT
TCCTACTGTCTCGGACTACGAGAGGTCAGAGTGGAGAGAAGCAATTCAGAACTACAGAAGAAGGATCTCCAGG
CCTTTGTCTGAGCTCAGTGGAGCTCCAGGTGCTCACAGGATCCTGTTTCAAGCTTAGGACTGTACACAACATTC
CTGTCACCAGCAATAAAGACGACGATGAGTCTCCAGGACTCTATGGCTTCCTTCATGTCATCGTCCACTCTGCCA
AGGGATTTAAGCAATCAGCCAACCTGTACTGTACCCTGGAGGTGGATTCTTCGGCTATTTTGTGAGCAAAAGCCA
AAACCAGGGTGTTCGGGACACAGCGGAGCCCAAGTGGGATGAGGAGTTTGAGATCGAGCTGGAGGGCTCCCAGT
CCCTGAGGATCCTGTGCTATGAGAAGTGCTATGACAAGACCAAGGTCAACAAGGACAACAATGAGATCGTGGACA
AGATCATGGGCAAAGGACAGATCCAGCTGGACCCACAAACCGTGGAGACCAAGAAGTGGCACACGGACGTGATTG
AGATGAACGGGATCAAAGTGGAAATTTTCATGAAATTCACCAGCCGAGATATGAGCCTGAAGAGGACCCCGTCCA
AAAAGCAGACCGGCGTCTTCGGTGTGAAGATCAGCGTGGTGACGAAGCGGGAGCGCTCCAAGGTGCCCTACATCG
TCCGGCAGTGTGTGGAGGAGGTGGAGAAGAGGGGTATCGAGGAGGTTGGCATCTACAGGATATCGGGCGTGGCCA
CGGACATCCAGGCGCTCAAGGCCGTCTTCGATGCCAATAACAAGGACATCCTGCTGATGCTGAGTGACATGGACA
TCAACGCCATCGCCGGGACGCTCAAGCTGTACTTCCGGGAAGTGGCCGAGCCGCTCCTCACGGACCGACTCTACC
CAGCCTTCATGGAGGGCATCGCCCTGTGAGACCTGTGCAAGGAAAAGTGCATGATGCACCTGCTCCGCTCCC
TGCCCGACCCCAACCTCATCACCTTCTCTTCTGCTGGAACACTTGAAAAGGGTTGCCGAGAAGGAGCCCATCA
ACAAAATGTCACTTCACAACCTGGCTACCGTGTGTTGGACCCACGTTACTGAGACCCCTCAGAAGTGGAGAGCAAAG
CACACCTCACCTCGGCTGCGGACATCTGGTCCCATGACGTCATGGCGCAGGTCCAGGTCCCTCTACTACCTGC
AGCACCCCCCATTTCTTCGCAGAAGTCAAGCGGAACACACTGTACTTCTCCACCGACGTGTAGCCCGAGGCAG
GGTGGCTGCGGGCGGGTGGTGGAAACCAGCCCCCTCAGCCTGGGGTCCAAGTCAAGTGAAGACTGCAATAGAA
AACTCCCAAACCCAGCACTCCAGACTCGAGGGAAGCCAGCTTCCAAGAACTGGAATGCGTACGTCTTTTGTGCCA
CCTTGTAACAAAGCCGGCTGCCAGCCCCAGCCTCACCACCGCATCCCACCTCCTGCCCTCCATACCTCTAGTTGT
GTCTGATGCTCCGTGCTGTTTCGGGAATTGTTTTATGTACTTGTGAGGAGAAAAGGTAGTGACCGGCCCGGCG
TGGGCACACAGACAGCCCCGCTTTGTTCTTTTCTTCCAGCACTTTCTTTCCGCTGAGTCCAGCCCAAGGCC
TTTTATTTTTCGCTGTGTAAGTGTGCCAGCTTCTCTTGGCCCTGCTCCAGATGGCGGTCTCCTGGCAGCCTCC
CCTCAGTCTTCTCCACCCGCTCTTCTTCCCAGCCTGCCTGCATGCATGTGCACCCCTTGGTCTTCGCTCCATCG
CCTTGAAAGCTCTGAAGAGGCCCTGGGTTGCCGCGGCAGAGTGGTCTGTTTGATGCTGCCGTTTGCCGCTGCCG
GCCCCCTCCTCAGACTCCGCTTTGGGAGCACACCTGCTTTGCCTTGCTGCCTGTGCAAATGTTGGACAAGCAGAC
ACACTCACACTCGTCCCCAGCTTAGCACAGAGCTGGAGCGCCCATTTCTGGAATTTTCCGTTTGGGAATCTCCAC
TTCIGGGGTTTACCTGTTTCGGCCTCCTGCCTATCAGTGAGGCATCTCTGACTGTTTCTTCTACTGCTTTTCAGTT
CCCTTCCCTGCTGTTCTATTTCTTTGAGTGTAAGACTCACAGGTGACCTGCTATCGAGATAGCCAGAGGGTCA

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FIGURE 4644B

GGAGAGAATGGGGGAGGAGGCGGTCAGGCTGCTGAGGAAACACCACAGGCTGAACGGGGGAGGAATGCACATGCC
ACGCTGGGTGTCCCGGGTCGCGGGGAGGCAGCTCAGCTCTTAGGAGCAAGTTGTGGGGGCTTTTCAAGAGGGGCC
AGGCTTCCTGGAGGGTGACTGATGTGGCCGAAGCAGGTGTCCAGGCAGGTAGGCTGCAGCCAGGAGCTCCCTGGC
ACCGCAGGACCTCGTGGTACTCTTGCCCTTAGATTTTACACACACTCCACAGCCAAGCACTGCCACGGTCCCTCCAG
GACCTGGGAAGCAAAGGCACAGGCCACGGTGGCCAGCCATTGTGGTGCTGCCCCAGCTTCTGGATACAGCCTTT
TGGGTAAACACTGGGAACCTCAGAAGTTGTGGGGAGAGTGGGGAATCAGACAGCCGCCTCTAGGGGCTGGGTTCT
GCTGGGGCCTCCTTGTTGGTGCTGTAGGCACCCGCCAGGGAGCAGGGACCCGACTTGACAGACGCATTGCCCGGTA
CTAGGAAGGAGTGAGGTGTGTTCCACCGTACACTTCCACACGAGCTGCGGCTGCCAGCCTCGGGCCATCAGCC
TAGGAGAGCAGATGCAGCTCCAGGGGCTCGACTTATAGCCAGTTACAGCTCCCCGGCTCTTCTGTGTGGCAGAGC
GTCGTTTCCGGGCCCCCAGGGCTGGGGAGCTCAGTTCCCATTTGCTTGTGCTCAGGGCTGAGTCTTAAAGAAGGGT
TTGCCGGCCCCAACGCTGCAGCGCGTGCGCGGAGAGAGGCCCTTTTTGAGCCTGTTTACTCCTGTGGCCTTGGGC
AGAACAGTAAATACTCTGTGCACGGAGGAAAGACATGCCCAAGAGGAAGGAAGTACTGACCATCGGCTGCCTGTG
AGCAGCTTAGCAAGGAGCCCTTGCTCCCTGGGAAAGGCGGTGAACCTTGAGTCTAAAGATGCAGTGCCTGGCCCTT
CCTAAGGTCCCTGCCCTGGCATCCGAGTGTGCGGTGTGTGGCACAGAAGGCTCCTGCTTGCTTCCAAAGTGATGGAC
AGGAAGGGGCAGAGTGAGTCACGGCCAGACTGGGCACCTTCGCGTCTCAGCCTCAGGGAGCCCCACAGCCCCAA
GCTCGCTGAGGCAACGTGAGAACAGGCTATGGGAAGGCTGCAAAGGCTGAGAAATGCAAAGGCTCATATTTATAA
ATCCCCACCCCAAGAGTGGGGAGGGTCAGGTGCCAGACCTGGACTAAACTGCACCAAGGAAACACCCAGCAGGGTC
TCCTGTGAGCCGGGGACCATGCAGCCCGAAACCTCCAGTCACTGCGCCCCGCAGGAGTCAGGAGCCAGGGACTGT
GCAGCCTGGAACCTCCAGTCACTGTGCCAGCAGGGTGGGCTGTGCCCAGCAGGAGTCAGGCTAAGAAACGCCAG
GTCTGCCGTGTTCTTGCTGGGCAATGGCTGATGGCTGCCAGTTTCTGCTGATACACAGGTAGGATGGGACCCCTTCA
TGAATATCTGACTTTAATAAGTTGGTAAGGATATATTTTTTTGTCTATGTTCTGTTTCAACTTATGTAGATTATT
ATAAATTGATGTAAACCACGTGAGAGGAAAATGTTAATAAAAAATGCAAAGCCCCATCATTTGCACAAAACTC

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FIGURE 4645

GGGACCGAAAACCTTCAGGGAAGTCATTGCAGGGCCCTTGCTTAGAAAACAAATGGGCAGTCTCTGGAGAGCAGCAG
CCTGGAGGGGTCTCACGTGGGCGTCTATTTCTCCGCACATTGGTGTCCGCCCTGCCGAAGCCTCACCCGGGTCTCT
GGTGGAATCCTACCGGAAGATCAAGGAGGCAGGCCAGAACTTCGAGATCATCTTCGTTAGTGCAGACAGGTTCGGA
GGAGTCTTCAAAACAGTACTTCAGTGAGATGCCCTGGCTCGCCGTCCCCCTACACGGATGAGGCCCGGCGGTTCGCG
CCTCAACCGGCTGTACGGAATCCAAGGCATCCCCACGCTCATCATGCTGGACCCGCAGGGCGAGGTGATCACGCG
GCAGGGGCGGGTGGAGGTGCTGAACGACGAGGACTGCCGGGAGTTCCCCCTGGCACCCCAAGCCCGTGTCTGGAGCT
CTCCGACTCCAACGCCGCGCAGCTTAACGAGGGCCCCCTGCCTCGTCTCTTTTGTAGATTCTGAGGATGACGGAGA
GTCCGAGGCGGCCAAGCAGCTGATTACGCCGATAGCTGAGAAAATCATTGCCAAGTACAAAGCCAAAGAGGAGGA
GGCACCCCTTCTGTTCTTCGTAGCCGGGGAGGATGACATGACTGACTCCCTGCGAGATTACACCAACCTGCCTGA
GGCTGCCCCCTTTGCTCACCATCCTGGACATGTCTAGCCCGGGCCAAGTACGTGATGGACGTGGAGGAGATCACCCC
CGCCATCGTGGAGGCCTTTGTGAATGACTTCCTAGCAGAGAAGCTCAAACCGGAGCCCATCTAGCGTGGCTCCGG
CCTCTGAGACGTTATTTAAACTCAGCCTTCTCCTCCTCCCCCTCCTTCCTTCCGCCCTTGGACTTACCCAGCG
TGCCCCGAATCCCACCACCCAAGTGTCCAGCCTCTCTGTGGTGCCTTGTCTTCTGCAGTAAACTCCTCAGCCAGCA
CCCTGGGGTGTGGAATCAGCAGCGGCAGAGTCCACCGTGTCTTGGAGACTCTGTTTGGGAGCACGGGATGGCCGGG
GGCCCGGCCAGAGCGGGGCTGCATGGCTTTTCGAAAGTCACTAGCTTTTGGTGAAGGATCTGCCAGGGTGTCTCTG
GGCAGAGTGAGCGTGGAGGGCGGTGGGTCCCGCTCGGGCTCTGACTCTGACGTCGGCACACACGGCCCCGGACG
GCCAGAGGGGAACCGCCGGGTGACACCTGCGTGGAGGCTGAGCTGAGAAAAGGGCCTCCGCTTAGAGCTGCGGGTG
AGGACGTCTTTTCTAAGCAACACAGTCTTCTCGGTCTGAGAGAAAAGCAGCCCACTCTTGTGTTCTCAGGCAG
GGGATCTCCAAATGCAAAAGGAAGCTTGTAGAGGTTTTTTGGGTGAGAAGAAAAATGTAGCTAAGGTAATGGTTC
ATATCATACAAACAGCTCCCACGATCCTGAAATTCTGTTAACGAATCCTTCTCTTTGGACATCTTCCCAAGAAAC
TTAGCCCTGAGTCTTAGGAGGAGCACCTCTGCACCAGCACGGACCTCTCGCTCCACCCAGCTCTGTGCCAAGGC
CCCTGATCTCTGCTGAGGTGCCCACACCCACGTTTCGATCACCCCTGCCATTCCCTTTTATTTTCTTTTTTTTGGAG
ATGGAGTCTTGCTCTGTCGCCCAGGCTGGAGTGCAGTGGCACCATCTTGGCTCACTTCAACCTCCGCCCCCAAGG
TTCAAGTGATTCTCTGCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACCCGCCACCGTACCTGGGTAATTTT
TGTATTTTTTAGTAGAGATGGGGTTTACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACC
CGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCGCCGTGCCCCGGCCCCCTTTTCTTTTCAAAGCAGA
ACTACAAAGATGAGAAAATTACCAGAAGCCTCGCCTTTTCTAAGCACCAGCGGAAGGAGCTGTGCCCCGGGATGG
AGTGAGGGTGGAGGGCGGCTCAGCCACGGGTGGGCCTTGTGTGCGCTTGTATCGGCCCAGGTAGGTTGTTGGCCT
CTTACTTGGGCTGACCTGACCCCCGAAAGAGAAACAGACAACCTCTGTTCTCAGGATTGGGGATGGACGGCTTCGG
CCAAGCGTTTTAGCCTCATTCAGGCCCCACTCAGCACTCTGCCAGCCAAGACCATGATTGGAAAATCCG
GTCCCCACCCGCTAATGAGCTGTTGACACTGTTGTTCTTGCTGAATTGGATTGTTGACTTGTAGTTCAGAGGCG
TACAAGTAGTTGGCGATTAGACTTGTATGTGATGTTACCAGCCTGAAATGCGATCACCCCGTAGGAAATAAAGC
AGGCATCTCTGGACCTC

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FIGURE 4646A

TGGCCGTGTGATTGCTCTGTGCCCATTACCCTGTGGCCGTGTGACTGCTGCTGTGCCCATTACCCTGTGGCCGTG
TGATTGCTGCTGTGCCCATTACCCTGTGGCCGTGTGATTGCTCTGTGCCCATTATCCTGTGGCCGTGTGATTGCT
CTGTGCCCATTACCCTGTGGCCGTGTGATTGCTCTGTGCCCATTACCCTGTGGCCGTGTGATTGCTCTGTGCCCCA
TTATCCTGTGGCCGTGTGATTGCTCTGTGCCCATTATCCTGTGGCCGTGTGATTGCTCTGTGCCCATTATCCTGT
GGCCGTGTGATTGCTCTGTGCCCATTACCCTGTGGCCGTGTGATTGCTGCTGTGCCCATTACCCTGTGGCCGTGT
GATTGCTCTGTGCCCATTATCCTGTGGCCGTGTGATTGCTCTGTGCCCATTATCCTGTGGCTGTGTGATTGCTCT
GTGCCCATTATCCTGTAGCCGTGTGATTGCTTCTGTGCCCATTACCCTGTGGCTGTGTGATTGCTGCTGTGCCCCA
TTATCCTGTGGCTGTGTGATTGCTGCTGTGCCCATTACCCTGTGGCTGTGTGATTGCTCTGTGCCCATTACCCTG
TGGCTGTGTGATTGCTCTGTGCCCATTATCCTGTGGCCGTGTGATTGCTGCTGTGCCTGTTACCCTGTGGCTGTG
TGATTGCTCTGTGCCCATTACCCTGTGGCTATGCTCCCTTCATCTGTCATGAGAAGCTCAGCTGTCATGTCCTGT
GGTACATGCTCAGTGGCCCCGTGTAGTTTGTACTGTCTCCTATTTCTAAACCCCTCTCCCCACATCCTCTGCTGG
CCCAGCCTTTGCTGGAGGGTCTCGCCTCAGCAGCCAGCTTTTTCTTTTACACACTTTTCTGAAGGATCTCAT
TCACCGTCTTGGTTCCGGTGATCCCTCTGGGCAGATACCTCTCAGAATCACATTTCCAGCTTACTTCCCTCCT
GAACTTCCACCTGGCATTTCCGTTGCTGGAGGACATCTGTACCTTGATGGCCAAAGCTGAACTCATCTTCTCTCA
CACCTGCTCTGATTCTCCTCCATTCCCTGTATGTGATGTCACCTGGTGGCCTCCAGTTCCAGGCTGGAGAGCT
CGGAAGCCATTCTGGATTCTCGGCCAAGTCCTTCTGACTCCAGCTGTGCAGTGGCTCTTGTAGTCATCCCTTCT
CCCCGTCCGCTGATGTCCTTTAAACCCCTTGTCTATCTCAAACCATGACAGCCTACTAACAGCAGTGGCCATCTGG
AAACATTTTCACTATACTGTCTTATTTGGCTTGTCTGTGTGAGGACCCTTGAACATCTGTGAAGAAATGACTAT
TCTGCATGGAGGCTTCTTGTGCGGAGCAGCTGTTCCACCCTAAGGCACTGGCAGAAATTAACAAAGTCTGACTG
GGAACGTGTTGGACGGCCCATCTGGAGGCCTTAAGGGAGATCTCCTCGGCTGCAGCACACTCCAGCCCTTTGC
CTGGAAGAAGAAAGCCCTGATCATCATCTGGGCCAAGGTTCTGCAGCCGACCCCGTGACCCCGTCCGACACAGA
GACACGGTGGCAGGAAGACCTGTTCTTCTCGGTGGGCAACATGATCCCCACCATCAACCACACCATCCTCTTCGA
GCTGCTCAAATCCCTGGAAGCTTCTGGACTCTTTATCCAGCTCCTGATGGCCCTGCCCACCACCATCTGCCATGC
AGAAGTAGAGCGCTTTCTGGAACATGTGACCGTTGACACTTCTGCCGAAGACGTGGCCTTCTTCTGGACGTCTG
GTGGGAGGTGATGAAGCACAAAGGTCACCCGCAGGACCCCTGCTCTCCAGTTTGTGCAATGGCCCATAGTA
CCTGCCTGCCTTAGATGAGTTCCCCCATCCTCCAAAGAGGCTTAGGTGAGACCCAGACGCGTGCCCCACCATGCC
CCTGTTGGCCATGCTGCTCCGCGGGCTGACACAGATCCAGAGTCGGATCCTGGGCCCCGGGGAGGAAGTGTGTGC
GCTGGCCAACTGGCTGACATGCTGACTGTGTTTGCCTGACAGAGGACGACCCCGAGGAGGTGTGTGCAACCGT
GTATCTGGACAAACTGGCCACGGTGATCTCTGTGTGGAACTCGGACACCCAGAATCCCTACCACAGCAGGCGCT
GGCAGAGAAGGTGAAGGAGGCAGAACGGGATGTCAGCCTGACCTCGCTGGCCAAACTXCCCCAGTGAGACCATTT
TCGTGGGCTGCGAGTTCTGTCACCACCTGCTGCGGGAGTGGGGGGAGGAGTTGCAGGCGGTGCTCCGCAGCAGCC
AGGGGACAAGTTACGACAGCTACCGGCTGTGCGACAGTCTGACTTCCTTCAGCCAGAACGCGACGCTCTACCTGA
ACCGCACCAGCCTGTCCAAGGAGGACAGGCAGGTGGTCTCTGAGCTGGCGGAGTGTGTGAGGACTTCCTGAGGA
AAACGAGCACGGTGTGTAAGAACAGGCGCTTGGAGGATATCACAGCTTCCATTGCCATGGCCGTCTACAGCAGA
AGATGGACCGCCATATGGAAGTGTGCTACATTTTGCCTCTGAGAAGAAGTGGGCCTTCTCGGACGAGTGGGTAG
CCTGCCTGGGGAGTAACAGGGCCCTCTCCGACAGCCAGACTTGGTGTGAGGCTGCTGGAAACAGTGATAGACG
TCAGCACAGCTGACAGAGCCATCCCTGAGTCTCAGATCCGGCAGGTGATCCACCTGATCCTGGAATGTTACGCAG
ACCTCTCCCTGCCAGGTAAAAATAAAGTCCTTGACAGGTATCCTGCGTTCTTGGGGGCGAAAGGGCTCTCTGAAA
AGTTGCTGGCTTATGTGGAGGGTTTTAGGAAGACCTCAATACAACCTTTTAACAGCTCACTCAGAGTGCCTCCG
AACAGGGCTTGGCAAAGCTGTGGCCTCCGTGGCCCGCTGGTCATAGTGCACCCGGAAGTCACGGTGAAGAAAA
TGTGCAGCCTGGCTGTGGTCAATCTCGGCACCCACXAAXGTTCTGGCCAGATTCTCACTGCCTTCCCTGCCCT
TAGGTTTGTGGAAGAGCAGGTTCCCAATTCATCTGCCACTTTCATGGTGTCTATGCCTCAAAGAAACCGTCTGGAT
GAAGTTCTCTACACCCAAGGAAGAAAAGCAATTTTTAGAGCTCCTGAACTGCCTGATGAGTCCCGTGAACCCCCA
AGGGATTCCAGTGGCTGCTCTTCTTGAGCCAGACGAGGTGCTGAAGGAATTTGTCCTGCCTTTCTTGAGGTTAGA
TGTTGAAGAGGTAGACCTCAGTCTGAGGATCTTCATCCAGACTCTAGAGGCAAACGCGTGCCGAGAGGAATACTG
GCTCCAGACCTGCTCCCCGTTTCCACTCCTCTTCAGCTTGTGCCAGCTCTTGGACCGCTTCAGCAAATACTGGCA
GCTTCCCAAGGAGAAGCGGTGCCTCTCTTTGGATAGGAAGGATCTAGCGATCCATATCCTGGAGCTCCTGTGTGA
GATTGTATCAGCCAATGCTGAGACCTTCTCCCCGGATGTCTGGATCAAGTCCCTGTCTGGCTCCACCGCAAGTT

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FIGURE 4646B

AGAACAGCTAGACTGGACTGTGGGCCTGAGGCTGAAGAGCTTCTTCGAGGGGCACCTCAAGTGTGAAGTGCCAGC
CXACAXCTTTTTGAGATCTGTAAGCTTTCAGAAGACGAGTGGACCTCCCAGGCCCCACCCAGGGTACGGGGCTGGC
ACGGGGCTCCTGGCCTGGATGGAGTGCTGCTGCGTCTCCAGCGGCATCTCGGAGAGGATGCTGTCTCTCTTGGTG
GTGGACGTGGGCAATCCTGAGGAGGTCAGACTGTTTACGAAAAGGCTTTCTGGTGGCCCTGGTGCAAGTCATGCCT
TGGTGCAGCCCTCAGGAGTGGCAGCGCCTTACCAGCTGACCAGGAGACTGCTGGAGAAGCAGCTCCTCCATGTC
CCTTATAGCCTGGAATATATTAGTTTGTTCCTGCTCAACCTGAAGCCCTTTGCCCAGGAGTTGCAACTCTCC
GTCCTCTTCTGAGGACTTTCAGTTTCTCTGCAGCCATAGCTGTCTGATTGGCTTCTCTGGAAGGCTGGAAC
CACGTGGTCAAACTCCTCTGTGGCAGTCTGACCCGCTCCTGGACTCAGTCAGGGCGATACAGGCAGCTGGCCCT
TGGGTTCAAGGACCAGAGCAGGACCTGACCCAGGAAGCCCTGTTTGTTCACCCAGGTGTTCTGCCATGCTCTG
CACATCATGGCCATGCTCCACCCGGAGGTCTGTGAGCCACTCTACGTTTTAGCCTTGGAACCCCTCACCTGCTAT
GAGACTTTGAGCAAGACCAACCCTTCTGTGAGCTCCTTGCTCCAGAGGGCACACGAGCAGCGCTTCTTAAAGTCC
ATTGCTGAGGGCATCGGCCCTGAAGAACGGCGCCAAACCCTGTTGCAGAAGATGAGCAGCTTCTGACTTGGCGTG
GGGAGCTGGGCCCCAACATGGCGGGTCTGCAGAAGATCAGCAGCTTCTTACCTGTGCGGGAGCGAAAAAGCTGGG
CTTCAACATGGCAGGTCTGTAGGGGTGAGACCCGAGCAGCCTGGACTTTACAGTTATGTGAAACTGTCCACAAAA
AGTCATGGCAATAATGGTGTAAGAAAATAGTTTCTTGGGTATTTGTAACGTACAACTATCATAAAAATTCTCC
TCTTTCGC

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FIGURE 4647

CCAACTTCGGCTATGACCTGTACCGGGTGCGATCCAGCATGAGCCCCACGACCAACGTGCTCCTGTCTCCTCTCA
GTGTGGCCACGGCCCTCTCGGCCCTCTCGCTGGGAGCGGAGCAGCGAACAGAAATCCATCATTACCGGGCTCTCT
ACTATGACTTGATCAGCAGCCCAGACATCCATGGTACCTATAAGGAGCTCCTTGACACGGTCACTGCCCCCAGA
AGAACCTCAAGAGTGCCTCCCGGATCGTCTTTGAGAAGAAGCTGCGCATAAAAATCCAGCTTTGTGGCACCTCTGG
AAAAGTCATATGGGACCAGGCCAGAGTCCTGACGGGCAACCCCTCGCTTGACCTGCAAGAGATCAACAACCTGGG
TGCAGGCGCAGATGAAAGGGAAGCTCGCCAGGTCCACAAAGGAAATCCCGATGAGATCAGCATTCTCCTTCTCG
GTGTGGCGCACTTCAAGGGGCAGTGGGTAACAAAGTTTGACTCCAGAAAGACTTCCCTCGAGGATTTCTACTTGG
ATGAAGAGAGGACCGTGAGGGTCCCCATGATGTCGGACCCTAAGGCTGTTTTACGCTATGGCTTGGATTGAGATC
TCAGCTGCAAGATTGCCCAACTGCCCTTGACCGGAAGCATGAGTATCATCTTCTTCTGCCCCTGAAAGTGACCC
AGAATTTGACCTTGATAGAGGAGAGCCTCACCTCCGAGTTCATTGATGACATAGACCGAGAAGTGAAGACCGTGC
AGGCGGTCCCTCACTGTCCCCAAGCTGAAGCTGAGTTACGAAGGCGAAGTCACCAAGTCCCTGCAGGAGATGAAGC
TGCAATCCTTGTTTGATTACCAGACTTTAGCAAGATCACAGGCAAACCCATCAAGCTGACTCAGGTGGAACACC
GGGCTGGCTTTGAGTGGAACGAGGATGGGGCGGGAACCAACCCAGCCAGGGCTGCAGCCTGCCACCTCACCT
TCCCGCTGGACTATCACCTTAACCAGCCTTTTCATCTTCGTACTGAGGGACACAGACACAGGGGCCCTTCTCTTCA
TTGGCAAGATTCTGGACCCCAAGGGGCCCTAATATCCCAGTTTAATATTCCAATACCCTAGAAGAAAACCCGAGG
GACAGCAGATTCCACAGGACACGAAGGCTGCCCTGTAAGGTTTCAATGCATACAATAAAAGAGCTTTATCCCT

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FIGURE 4648

ATGGAAGAAGGCTCGGGGCCGAGCCACCCCGGACCGCCGGCCAGCCCCGGTACCTCCTCACC GCAATGGCCCC
CCTCGCTCAGCTGGCCGACCATGGCTCCACCGCCAAGACTTCCCCGCGGACCCCGCAACAGCTCCAGCTTCCCCA
CCCGGACCTGAGGATGAGCTGTTTCTAAAAAGACTTTCTAAAGGTTACTTGGTGGGAAAGGACTCGGACGCTCCT
CTTTTCTACAGAGAAGAAGGAAACAAAAATTTACAGGAGAAAGATTACACAGGAGCTGCAGTGCTGTACTCTAAG
GGAGTGTACATTCAAGGCCTAACACTGAGGACATGTCACTGTGTGCTATGCTAACCGCTCGGCAGCCCTCTTCCAC
CTGGGTCAGTATGAGACGTGTCTTAAAGACATTAACAGAGCACAGACACATGGGTATCCAGAAAGGTTGCAACCC
AAGATTATGTTACGTAAAGCAGAATGTCTGGTGGCCCTGGGGAGACTGCAGGAGGCAAGCCAGACCATCAGTGAT
CTTGAAAGGAACTTCACAGCCACACCAGCCCTAGCAGATGTCTCTCCCTCAGACTCTGCAGAGAAACCTCCATCGT
CTGAAAATGAAGATGCAAGAAAAGGACAGTCTCACAGAAAGCTTCCCAGCAGCTCTGGCCAAAACCCCTTGAGGAT
GCAGCGCTGAGGGAGGAGAATGAACAACCTTTCCAATGCCTCATCATCCATCGGCTTATGCGTAGATCCTTTAAAA
GGTCGCTGTCTCGTTGCCACAAAAGATATTCTCCCAGGAGAGCTCCTGGTGCAGGAGGATGCTTTTGTGAGTGT
CTCAACCCAGGAGAACTGCCACCACCGCATCACGGCCTAGACAGCAAATGGGACACCAGAGTCACCAATGGGGAC
CTCTATTGTACCGATGTTTGAAGCACACTTTGGCCACAGTTCCTGTGTGACGGATGCAGTTATGCCAAGTATTGC
AGCCAGGAGTGTGTCAGCAGGCCTGGGAGCTCTACCACAGGACAGAATGTCTCTGGGAGGGCTGCTTCTCACA
CTGGGTGTCTTTTGGCACATTGCCCTGAGGTTGACTCTTTTGGTGGGATTTGAGGATGTTTCGCAAAATCATAACG
AAGCTTTGTGATAAGATTAGTAACAAGGACATCTGTTTACCTGAAAGCAACAATCAGGTCAAGACACTTAATTAT
GGCCTAGGGGAGAGTGAGAAAAATGGCAACATCGTTGAGACCCCAATTCTGGATGCGATATTAATGGGAAGTAT
GAAAATAATTATAATGCTGTCTTCAACCTTTTGGCCACACTGAAAACCATAGCCCAGAGCACAAATTCCTCTGT
GCTCTCTGTGTTTCTGCACTGTGCAGACAGCTAGAAGCAGCCAGTTTACAGGCCATCCCAACTGAGAGGATTGTG
AACTCCTCTCAGCTTAAAGCAGCAGTGACACCTGAATTGTGTCTGACGTGACTATTTGGGGAGTGGCGATGCTG
AGACACATGTTACAGCTTCAGTGTAACGCTCAGGCGATGACCACCATAACAACACACAGAGCGAGCTGTTACGCGG
CTGTGCGGGTGCCAGCGTGACGCCGAGAGCTTCTGTGGGCAGAGCACGCCGTGGTGGGAGAGATCGCGGATGGC
CTGGCCCGGGCCTGTGCTGCCTTAGGAGACTGGCAAAAGTCAGCCACCCATCTACAGAGGAGTCTCTACGTGGTG
GAGGTTGCCACGGGCCGTCCAGTGTGAAATGGGCCATGAGCTCTTCAAATTGGCCCAGATCTTTTCAACGGG
TTTGCAGTACCCGAAGCCCTGAGCACAAATACAGAAAGCTGAGGAGGTTCTGTGCTGCACTGTGGCCCATGGGAC
GATGAAATCCAGGAGCTCCAGAAGATGAAATCCTGTTTGTGGACTTACCACCCACCCCTGTAGGGCCTGCATTG
TAG

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FIGURE 4649

MSLCHANRSAALFHLGQYETCLKDINRAQTHGYPERLOPKIMLRKAECLVALGRLQEASQTISDLERNFTATPAL
ADVLPQTLQRNLHRLKMKMQEKDSLTESFPAALAKTLEDAALREENEQLSNASSSIGLCVDPLKGRCLVATKDIL
PGELLVQEDAFVSVLNPGEPPPHHGLDSKWDTRVTNGDLYCHRCLKHTLATVPCDGCSYAKYCSQECLQQAWEL
YHRTECPLGGLLLTGVSFCHIALRLTLLVGFEVDVKIITKLCDKISNKDICLRESNNQVKTNLNYGLGEMLKWAMS
SSNWPRSFSTGLQYPKP

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FIGURE 4650

AGAGTAGTTATCTTGATGGAAXTTAGAAGTTTTGAAGTCAGCTGAAGCAGTTGGAGTGAAGATTGGCAATCCAGT
GCCCTATAATGAAGGACTCGGGCAGCCGCAAGTAGCTCCTCCAGCGCCAGCAGXCCAGCCCAGCAGCAAGCAGCA
GGCCCCAGXCCGCXAXGAATGGAAGCTCGGGAATGGGTTCTACTGTTTCTAAGGCTTATGGTGCITCAAAGACAT
TTGGAAGGCTGCAXGGTCCCAGCCTGTCACACACTTCTGGGGGAACAXCAGTCCAAAGTGGTGGCCATTGCCAG
CCTCACTCCTTACCAGTCCAAGTGGACCATTGTGCTCGTGTACCAACAAAAGTCAGATCCGTACCTGGAGCAA
CTCCCGAGGGGAAGGGAAGCTTTTCTCCCTAGAACTGGTTGACGAAAGTGGTGAAATCCGAGCTACAGCTTTCAA
TGAGCAAGTGGACAAGTTCTTTCCTCTTATTGAAGTGAACAAGGTGTATTATTTCTCGAAAGGCACCCTGAAGAT
TGCTAACAAGCAGTTCACAGCTGTTAAAAATGACTACGAGATGACCTTCAATAACGAGACTTCCGTCTATGCCCTG
TGAGGACGACCATCATTTACCTACGGTTTCAAGTTTACGAGGATTGATGACCTCGAGAACAAAGTCGAAAGA
CTCACTTGTAGACATCATCGGGATCTGCAAGAGCTATGAAGACGCCACTAAATCACAGTGAGGTCTAACAACAG
AGAAAGTTGCCAAGAGGAATATCTACTTGATGGACACATCCGGGAAGGTGGTGACTGCTACACTGTGGGGGGAAGA
TGCTGATAAATTGATGGTTCTAGACAGCCCGTGTGGCTATCAAAGGAGCCCGAGTCTCXTGATTTCCGTGGAC
GGAGCCTCTCCGTGCTGTCTTCAAGCAXCTATCATTGCGAATCCTGACATCCCAGAGGCCTATAAGCTTCGTGGA
TGGTTTGACGCAGAAGGACAAGCCTTAGATGGTGTTCATCTCTGATCTAAAGAGCGGCGGAGTCGGAGGGAGT
AACACCAACTGGAAAACCTTGTATGAGGTCAAATCCGAGAACCTGGGCCAAGGCGACAAGCCGACTACTTTAGT
TCTGTGGCCACAGTGGTGTATCTTCGCAAAGAGAACTGCATGTACCAAGCCTGCCGACTCAGGACTGCAATAAG
AAAGTGATTGATCAACAGAATGGATTGTACCGCTGTGAGAAAGTGGGACACCGAATTTCCCAATTTCAAGTACCGC
ATGATCCTGTCAAGTAAATATTGCAGATTTTCAAGAGAATCAGTGGGTGACTTGTTCAGGAGTCTGCTGAAGCT
ATCCTTGACAAAATGCTGCTTATCTTGGGGAATTAAGAGACAAGAATGAACAGGCATTTGAAGAAGTTTTCCAG
AATGCCAATTTCCGATCTTTCATATTCAAGAGTCAGGGTCAAAGTGGAGACCTACAACGACGAGTCTCGAATTAAG
GCCACTGTGATGGACGTGAAGCCCGTGGACTACAGAGAGTATGGCCGAAGGCTGGTCATGAGCATCAGGAGAAAGT
GCATTGATGTGAGAGGAGCAGTGCCAATCGGGCAGAAGTTTGCAATAGGCAGAAATGGAATCGATTTCCCTCCAC
CTCCGTGTGACGATCCCATGTTAGCTACACAGTGCAGAGGCTCTTGATGGTGGACTAAGCAATTTCCCTCCCTCGT
GCGCATCTCAGAACCCATCGGTAGGCAAAGGAAAATACGCTCAGGTGGTTGTGGTGTAGACTGTGTGAGGCCTAC
GGAGTCAGCCAGTGGCTAGCGCAAGACCAGTCACTCCCTCTGCCTTCAGGCTTCTGTCAATTTTATTATCATCAA
GCAGGAATTATGTCGTAAGTCACTGACCCTAACTGCAGACCATGAAGTAAATTATGTAAGTAGGTTTTTGCTTCT
CCAGTGGTGACCACCCCCCCCCATCCCCGCTCACAACCTGGGTTCTTCTCAGCGGGCGAGCTGAGAAGCGGTCA
TGAGCACCTGGGGATTTTAGTAAGTGTGTCTTCTTA

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FIGURE 4651

GATGGCTGCGCTGTTGCTGAGACACGTTGGTCGTCATTGCCTCCGAGCCCACTTTAGCCCTCAGCTCTGTATCAG
AAATTGGTCTCTTCCCATGGCGATGTCCATCTGCCACCGTGGCACTGGTATTGCTTTGAGTGCAGGGGTCTCTCT
TTTTGGCATGTTGGCCGTGTTACTCCCTGGGAACTTTGAGTCTTATTTGGAACCTGTGAAGTCCCTGTGTCTGGG
GCCAGCACTGATCCACACAGCTAAGTTTGCACCTCGTCTTCCCTCTCATGTATCATACCTGGAATGGGATCCGACA
CTTGATGTGGGACCTAGGAAAAGGCCTGAAGATTCCCCAGCTATACCAGTCTGGAGTGGTTGTCTGGTTCTTAC
TGTGTTGTCTCTATGGGGCTGGCAGCCATGTGAAGAAAGGAGGCTCCCAGCATCATCTTCTTACACATTATTAC
ATTCACCCATCTTCTGTTTGTCACTTCTATCTCCAGCCTGGGAAAAGTTCTCCTTATTTGTTTAGATCCTTTTG
TATTTTCAGATCTCCTTGGAGCAGTAGAGTACCTGGTAGACCTTAATAGTGGAAAAGGGTCTAGTTTTCCCCTTG
TTTCTAAAGATGAGGTGGCTGXCAAAAACCTCCCTTTTTTTGCCACAGCTTGCCTACTCTCGGCCTAGAAGCAGT
TATTCTCTCTCCATATTGGGCTTTGATTTGTGCTGAGGGTCAGCTTTTGGCTCCTTCTTCTGAGACAGTGGAAA
CAATGCCAGCTCTXGTGGCTTCTXGCCCTGGGGACGGGCCGGGTGGGGGTGGGTTGGTGAGGCTTTGGGTGCCA
CTACCTGTGGGTGCTGGCTTAAAGGACAATTCTCTTCATTGGTGXAGAGCCCAGGCCATTAAACACCTACACAGT
GTTATTGAAAGAAGAGAGGTGGGGGTGGAGGGGAATTAGTCTGTCCCAGCTAGAGGGAGATAAAGAGGGCTAGTT
AGTTCTTGXGAGCAGCTGCTTTTGAGGAGAAAATATATAGCTTTGGACACGAGGAAGATCCAGAAAATTATCATT
GAACATATTAATGGTTATTTCTTTTTCTTGGATTTCCXAGAAAAGCCTCTTAATTTTATGCTTTCTCATCGAAGT
AATGTACCCTTTTTTTCTGAAACTGAATTAAATACTCATTTT

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FIGURE 4652

MAALLLRHVGRHCLRAHFSPQLCIRNAVPLGTTAKEEMERFWNKNIGSNRPLSPHITIYSWSLPMAMSICHRGTG
IALSAGVSLFGMSALLPGENFESYLELVKSLCLGPALHTAKFALVFPLMYHTWNGIRHLMWDLGKGLKIPQLYQ
SGVVVLVLTVLSSMGLAAM

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FIGURE 4653

GATGGCTGCGCTGTTGCTGAGACACGTTGGTCGTCATTGCCTCCGAGCCCACCTTTAGCCCTCAGCTCTGTATCAG
AAATTGGTCTCTTCCCATGGCGATGTCCATCTGCCACCGTGGCACTGGTATTGCTTTGAGTGCAGATGTGGGACC
TAGGAAAAGGCCTGAAGATTCCCCAGCTATACCAGTCTGGAGTGGTTGTCCTGGTTCTTACTGTGTTGTCCTCTA
TGGGGCTGGCAGCCATGTGAAGAAAGGAGGCTCCAGCATCATCTTCCTACACATTATTACATTCACCCATCTTT
CTGTTTGTCATTCTTATCTCCAGCCTGGGAAAAGTTCTCCTTATTTGTTTAGATCCTTTTGTATTTTCAGATCTC
CTTGGAGCAGTAGAGTACCTGGTAGACCTTAATAGTGGAAGGGTCTAGTTTCCCCTTGTTTCTAAAGATGAG
GTGGCTGXCAAAAACCTCCCCTTTTTTGCCACAGCTTGCTACTCTCGGCCTAGAAGCAGTTAT

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FIGURE 4654

ATGGCCGCGCAGCGACCCCTGCGGGTCCTGTGCCTGGCGGGCTTCCGGCAGAGCGAGCGGGGCTTCCGTGAGAAG
ACCGGGGCGCTGAGGAAGGCGCTGCGGGGTCGCGCCGAGCTCGTGTGCCTCAGCGGCCCGCACCCGGTCCCCGAC
CCCCCGGGCCCCGAGGGCGCCAGATCAGACTTCGGGTCCTGCCCTCCGGAGGAGCAGCCTCGAGGCTGGTGGTTT
TCAGAGCAGGAGGCCGACGTTTTCTCCGCATTGGAAGAGCCCGCGTCTGCAGGGGCCTGGAGGAATCACTGGGG
ATGGTGGCACAGGCACTGAACAGGCTGGGGCCTTTTGACGGCCTTCTTGGTTTCAGCCAAGGGGCTGCGCTAGCA
GCCCTTGTGTGTGCCCTGGGCCAGGCAGGCGATCCCCGCTTCCCCTTGCCACGGTTTATCCTCTTGGTGTCTGGT
TTCTGTCCCCGGGGCATTGGGTTCAGGAATCCATCCTGCAAAGGCCCTTGTCATTGCCTTCGCTCCATGTTTTT
GGGGACACTGACAAAGTCATCCCCTCTCAGGAGAGTGTGCAACTGGCCAGCCAATTTCCCGGAGCCATCACCCCTC
ACCCACTCTGGTGGCCACTTCATTCCAGCAGCTGCACCCAGCGTCAGGCCTACCTCAAGTTCTTGACCAGTTT
GCAGAGTGAAGATCAAGAAATGTCTCTGCTCCTACATCCAGCTCCTCTAGGGGCAGCCTCCGTATCCATGCCC
TCCCAGGACCCTCCACTCACTGCTGTGAGTGCGCCTCACCAGAACAGTTAAGAGACAACTATCAATTCTTGAGA
CCCAAATTATAAGGGCCCTGCCCTGTACTGAAGAAAAGGGGAGCACAAGGCCTTAATGGACATTGACTTGTGAAA
ACGCAAACATGAATATGGTTGGAGAGCCCTGGATTAGGAGGGTGACATGGGGAAGGCAGAGGCTGGCACGATGGT
GACTGCCACATAATAAAGTGGTGATTTGGATTTTG

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FIGURE 4655

MAAQRPLRVLCLAGFRQSERGFREKTGALRKALRGRAELVCLSGPHVVPDPPGPEGARSDFGSCPPEEQPRGWWF
SEQEADVFSALEEPAVCRGLEESLGMVAQALNRLGPF DGLLGFSQGAALAALVCALGQAGDPRFPLPRFILLVSG
FCPRGIGFKESILQRPLSLPSLHVFGD TDKVIPSQESVQLASQFPGAITLTHSGGHFIPAAAPQRQAYLKFLDQF
AE

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FIGURE 4656A

GCGGCGAGGGCGCGGGGGCTCTGAGGACCGCTCGGCGCCGCTCCTGCCACACCATGGGCAGCGCAGAGGACGCA
GTCAAAGAGAACTGCTGTGGAACGTGAAGAAGGAGGTGAAGCAAATCATGGAGGAGGCTGTACCAGGAAGTTT
GTGCATGAAGACAGCAGCCACATCATTGCTTTATGTGGTGCAGTGGAGGCTTGCCTCTTGATCAGCTGAGACGC
CGTGCCGCTGGCTTCCTGCGCAGTGACAAGATGGCAGCCCTGTTACCAAGGTGGGGAAGACGTGCCCAGTGGCG
GGGGAGATTTGCCACAAGGTACAGGAGCTGCAGCAACAAGCAGAGGGCAGGAAACCCTCAGGGGTCAGCCAGGAG
GCCCTGCGGAGACAGGGCTCAGCCAGCGGGAAGGCCCGGCCCTCAGCCCTCAGGCCTTGAAACACGTATGGGTA
CGCACGGCGCTCATCGAGAAAGTTCTGGACAAGGTCTGTGAATACCTGGCGGAAAACCTGCAGCAAGTACTACGAG
AAGGAGGCACTGCTGGCAGACCCTGTGTTCCGGCCGATCCTGGCCTCTCTTCTAGTGGGACCCTGTGCCTTGGA
TACACTAAGCTCAAGACAGCCGATCACTACTGGACTGACCCCTCTGCTGATGAGCTGGTCCAGCGGCACCGCATC
CGGGGTCCACCTACTCGCCAGGACTCCCTTGCAAAGCGCCAGCCCTGGGGATCCGGAAACGGCACTCAAGCGGC
AGCGCGTCGGAGGACAGGCTGGCTGCCTGTGCCCGCGAGTGTGTGGAGTCCCTGCACCAGAACTCACGGACGCGG
CTGCTCTATGGCAAGAACCACGTGCTGGTGCAGCCGAAGGAGGATATGGAGGCGGTCCCTGGCTACCTCTCCCTG
CACCAGTCTGCAGAGAGCCTGACTCTGAAGTGGACCCCCAACCAGCTCATGAATGGGACTCTGGGGGACTCCGAG
CTGGAAAAGAGCGTTTACTGGGACTATGCCCTCGTGGTGCCTTCAGCCAGGTCTGTGTGCATCCACTGCCACCAG
CAAAAGAGCGGTGGCAGCCTTGTGCTGGTGGAGCCAGGATGGCATCCAGAGGCCGCGCTGCATTTCCACAGGGA
GGACACCTGCTGTCTTTCTGTCTGTCTGGAGAATGGGCTGCTGCCTCGGGGACAGCTAGAGCCCCCGCTGTGG
ACCCAGCAAGGGAAGGGGAAAGTGTTCCTCAAGCTACGGAAACGAAGCAGCATTTCGCTCCGTGGATATGGAGGAG
ATGGGCACGGGGCGGGCCACCGACTATGTGTTCCGGATCATCTACCCCGGCCACAGGCACGAGCACAACGCTGGT
GACATGATCGAGATGCAGGGCTTTGGGCCCAGCCTGCCAGCCTGGCACCTGGAGCCCCTGTGCAGTCAAGGCTCC
TCCTGCCTCTCCTGCTCCTCCAGCAGCTCCCCACATGCAACCCCCAGCCACTGTAGCTGCATCCCCGACCGGTTG
CCGCTCAGGCTACTGTGTGAGAGTATGAAGAGGCAGATCGTGTCCCGGCCCTTCTACGGCTGGCTGGCACACTGC
CGCCACCTGTCCACGGTGCAGGACCCACCTGTCCGGCTGGTGCACCATAGCGTTATCCACCTGACCGGCCCCCG
GGGGCCTCCGCGGGCCTCACCAAGGACGTGTGGAGCAAGTATCAGAAGGACAAAAAGAACTACAAAGAGCTGGAG
CTGCTGCGGCAAGTTTACTACGGAGGCATAGAGCAGGATCCGCAAGGACGTCTGGCCCTTTCTGCTTGGCCAC
TACAAGTTCCGCATGAGCAAGAAGGAGATGGAGCAGGTGGACGCGAGTGGTGGCAGCAAGGTACCAGCAGGTGTTG
GCAGAGTGAAGGCCTGCGAGGTGGTGGTGGAGCAGCGGGAGCGGGAGGCCACCCAGCCACACGCACCAAGTTC
TCCTCAGGCAGCAGCATCGACAGCCACGTGCAGCGCTCATCCACCGAGACTCCACCATCAGCAACGATGTGTTT
ATCTCAGTGGATGATCTGGAACCCCCGAGCCCCAGGACCTGAAGATTCCAGACCAAAACCTGAGCAGGAAGCA
GGACCCGGGACTCCGGGCACCGCCGTGGTGGAGCAGCAGCATTCCGTGGAGTTCGACTCTCCAGACTCAGGACTG
CCCTCCTCTCGCAATTACTCEGTGGCCTCGGGCATCCAGTCAAGCCTAGATGAGGGGCAGAGCGTGGGCTTCGAA
GAGGAGGACGGCGGTGGGGAGGAAGGCTCCAGTGGGCCCCGCCCTGCAGCTCACACTTTGAGGGAGCCCCAGGAT
CCCAGCCAGGAGAAGCCTCAGGCCGAGAACTGGAGGCCGAGAGGAGCTTGCAGGCTGTGTGTGCGGCTGCCTAC
ACTATAGAATTACTGGACACTGTGGCCTTAAACCTGCACCGCATAGACAAGGATGTGCAGAGGTGTGACCGCAAC
TACTGGTACTTCACGCCCCCAACCTCGAGAGGCTCAGAGACGTATGTGCAGCTACGTGTGGGAGCACCTGGAC
GTGGGCTATGTGCAGGGCATGTGCGATCTGCTGGCGCCTCTCCTGGTACCCTCGACAATGATCAGCTGGCCTAC
AGCTGCTTCAGCCACCTCATGAAGAGGATGAGCCAGAACTTCCCCAACGGGGTGCCATGGACACCCACTTTGCC
AACATGCGCTCCCTCATCCAGATCCTGGACTCAGAGCTGTTTGAGCTGATGCATCAGAATGGAGACTACACCCAC
TTCTACTTCTGTTATCGCTGGTTCTGCTGGATTTTAAGAGAGAACTGCTGTATGAGGATGTGTTTGCTGTGTGG
GAGGTGATCTGGGCAGCCAGGCACATCTCATCGGAGCACTTTGTCTGTTTCATCGCCCTCGCCCTGGTGGAGGCC
TACCGAGAGATCATCCGTGACAACAACATGGACTTCACTGACATCATCAAGTTTTTCAATGAACGTGCTGAGCAT
CACGATGCCCAGGAGATCCTGCGGATTGCCCGGACCTCGTCCACAAGGTGCAGATGCTCATAGAGAACAAGTGA
GCTGGGGCCAGGAGGCAGCAGCCGTGCAGAGCCTGGGCTCCGGCAGGGAGAGGTGCAGGGGAGTCACCGCCGAGA
CCTCCCCAGCCACCAACCGACCCACCTCTGTTCTAACAAGCGGTTGTGAGCCTGGATCCGACTCCCGGCAGT
GCTGACCTGCAGGGCAAGTCAGGGGCCAGGATGCCCTCGGATCAGGGCCGGGATGGGAGGGGTACGCCTCAGGG
AGCAGCTGCCTTGGGGGACACACCTACTCTGCTCCCTCTCACACATCTGGGAGTAGCCCCACTGCCACCTGCAG
CCGCAGCCTGGACTGCTGCCACGAGTGAACCTGGGGCCCCACAGGATTAACAGGGGGCTATAGCGGCCTGGGGCC
TACTCAGCTGGGGTGGCAGAGGGCGAGAGGCTCTGTGCTGTGTCCCTTCTGAGGGTCCCTTTGCAGTCCCAGTAT
ATTGTGCGTGCACCAGCCCCAGCTGGAGCAACCAAACTGCTTCTGGTTTAGGCACACGTCACGGGTGCGGGAGA

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FIGURE 4656B

CCCGGGCACGGGAGACCCGGGCGCCTTCAGGCCGCTCCCCGAGATTCTGGGGCAGTCGGAAGATGTGGGCCCT
GGGTGGGAGCAGCCCACTTCAGCAGCACTGCCACTGCCTTTGGCCACCTGAGGTGACCCCAAGGCCTCCCCGGCC
TTGTACAGTGTAACCTCTGTGTATCTGTACAGCCTCGCTCCTGCCACCCACCCCTTGCCTTCTGCATTAGGTAATT
CCCTGAAAACCACGTGTAAGAAGTGATGCTTTTGCCAGTGATGATCTGGAATGCGACCGGAGCACTTGCTCTGA
GGAATCCCAGGGTGACTCTGTCGGGGAAGAATCCGGTCACAGCCTCCCTCAGAGACAGGCCTCAGTTCGAGGGC
AGCCCATTATCTGTGCGCAGACATCTGCCATGTCCCTGAGACTGCGGGAGGCAGGGGATGCATGGGTGTCCCCATC
TGTCCCTGGTGAGAAGCAAGGCTAGCTCTGCCTTCCACATGCTTCTCAGGATGCCAAGAGGCCTAGGAACCCAGA
AACCCCTTGAGGAGCTGTGTATGCGGGGGTGCCAGGAAGGGCATAGCTCCTGCCCCAGGCCTAGGCATGCTG
CTTGCTCGGCCATCCCCACTTCCTCCTCTACCCCAACACATGCAGGCTAGGCCTTGCCCTGGAACATGGAGGGCC
TGCCCGGGGCTGGGGCCTAGTCCAGCAGCCACCAAGTCTGGCAGACTTTCTGCATTTGAGAAACATGACAAAGG
GCCCCGAGCCCTTCTGCACCCAGCACAGCCTGCCAGCCAGCCCTGCCCCGGGCACTGCACAGCCTGTCTGG
GGGCCAGACCACCCATTGTCCATCCTTGTTGTCCGTGAGTCCTTGGCCTCCACCAAGCACGTGTGGCCATTGTG
TGCTGCCTTAGTGACTCCGTGGTTTTGTGAGGAGCAGAGTGTGTATGATTTTTGCCTCAGAACTATACTCTTC
TGTGTAACAGACCAATAAACACATTTGTCAAC

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FIGURE 4657

MGSAEDAVKEKLLWNVKKVQIMEEAVTRKFVHEDSSHI IALCGAVEACLLHQLRRRAAGFLRSDKMAALFTKV
GKTCPVAGEICHKVQELQQQAEGRKPSGVSQEALRRQGSASGKAPALSPQALKHVWVRTALIEKVLDKVVQYLAE
NCSKYYEKEALLADPVFGPILASLLVGPCALEYTKLKTADHYWTDPSADELVQRHRIRGPFTRQDSPAKRPALGI
RKRHSSGSASEDRLAACARECVESLHQNSRTRLLYGKNHVLVQPKEDMEAVPGYLSLHQAESLTLKWTPNQLMN
GTLGDSELEKSVYWDYALVVPFSQVVCIHCHQQKSGGTLVLVSQDGIQRPLHFPQGGHLLSFLSCLENGLLPRG
QLEPPLWTQQGKGKVFPKLRKRSSIRSVDMEEMGTGRATDYVFRIIYPGHRHEHNAGDMIEMQGFGPSLPAAHLE
PLCSQGSSCLSCSSSSSPHATPSHCSCIPDRLPLRLLCESMKRQIVSRAFYGWLACRHLSTVRTHLSALVHHSV
IPPDRPPGASAGLTKDVWSKYQKDKKNYKELELLRQVYGGIEHEIRKDVWPFLLGHYKFGMSKKEMEQQVDAVVA
ARYQQVLAEWKACEVVVRQREAREHPATRTKFSSGSSIDSHVQRLIHRDSTISNDVFISVDDLEPPEPQDPEDSR
PKPEQEAGPGTPGTAVVEQQHSVEFDSPDSGLPSSRNYSVASGIQSSSLDEGQSVGFEEEDGGGEEGSSGPGPAAH
TLREPQDPSQEKPAQAGELEAGEELAAVCAAAYTIELLDTVALNLHRIDKDVQRCDRNYWYFTPPNLERLRDVMCS
YVWEHLDVGYVQGMCDLLAPLLVTLNDQLAYSCFSLMKRMSQNFPGGAMDTHFANMRSLIQILDSELFELMH
QNGDYTHFYFCYRWFLLDKFKRELLYEDVFAVWEVIWAARHISSEHFVLFIALALVEAYREIIRDNNMDFTDIIKF
FNERAEHHAQEILRIARDLVHKVQMLIENK

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FIGURE 4658

CGCCGCCCAGCTCCCAGCCGAGGCTTTCTCAACCGCGTCAATAAAAGGCCGCCCGACCCGCCCCCGCGCCCCGC
AGCCCTGCCGGACACCCCGGGCTGCAGCTGAGCGGGCGCAGACGGGCCGAGGCGGGCGCCGGGCGCGCAGGGACC
GAGGGACCGAGTGCTCCCCATGAGCGCACGTGGGCCGGGCGGTCCGCAAGCCCGGTGAGAGCGCGCCATGGGGC
AGGCGGGCTGCAAGGGGCTCTGCCTGTCGCTGTTCTGACTACAAGACCGAGAAGTATGTCATCGCCAAGAACAAGA
AGGTGGGCCTGCTGTACCGGCTGCTGCAGGCCTCCATCCTGGCGTACCTGGTTCGTATGGGTGTTCTTGATAAAGA
AGGGTTACCAAGACGTGCGACACCTCCCTGCAGAGTGCTGTCATCACCAAAGTCAAGGGCGTGGCCTTCACCAACA
CCTCGGATCTTGGGCAGCGGATCTGGGATGTCGCCGACTACGTCATTCCAGCCCAGAATGAAGGCATTCTTGATG
GCGCGTGCTCCAAGGACAGCGACTGCCACGCTGGGGAAGCGGTTACAGCTGGAAACGGAGTGAAGACCGGCCGCT
GCCTGCGGAGAGAGAACTTGGCCAGGGGCACCTGTGAGATCTTGCCTGGTGCCCGTTGGAGACAAGCTCCAGGC
CGGAGGAGCCATTCTGAAGGAGGCCGAAGACTTCACCATTTTCATAAAGAACCACATCCGTTTCCCCAAATTCA
ACTTCTCCAAAAGCAATGTGATGGACGTCAAGGACAGATCTTTCCTGAAATCATGCCACTTTGGCCCCAAGAACC
ACTACTGCCCCATCTTCCGACTGGGCTCCGTGATCCGCTGGGCCGGGAGCGACTTCCAGGATATAGCCCTGGAGG
GTGGCGTGATAGGAATTAATATTGAATGGAAGTGTGATCTTGATAAAGCTGCCTCTGAGTGCCACCCTCACTATT
CTTTTAGCCGTCTGGACAATAAACTTTCAAAGTCTGTCTCCTCCGGGTACAACCTTCAGATTTGCCAGATATTACC
GAGACGCAGCCGGGTGGAGTTCCGCACCCTGATGAAAGCCTACGGGATCCGCTTTGACGTGATGGTGAACGGCA
AGGGTGCTTTCTTCTGCGACCTGGTACTCATCTACCTCATCAAAAAGAGAGAGTTTTACCGTGACAAGAAGTACG
AGGAAGTGAGGGGCCTAGAAGACAGTTCCCAGGAGGCCGAGGACGAGGCATCGGGGCTGGGGCTATCTGAGCAGC
TCACATCTGGGCCAGGGCTGCTGGGGATGCCGGAGCAGCAGGAGCTGCAGGAGCCACCCGAGGCGAAGCGTGGAA
GCAGCAGTCAGAAGGGGAACGGATCTGTGTGCCACAGCTCCTGGAGCCCCACAGGAGCACGTGAATTGCCTCTG
CTTACGTTTCAGGCCCTGTCTAAACCCAGCCGTCTAGCACCCAGTGATCCCATGCCTTTGGGAATCCCAGGATGC
TGCCCAACGGGAAATTTGTACATTGGGTGCTATCAATGCCACATCACAGGGACCAGCCATCACAGAGCAAAGTGA
CCTCCACGTCTGATGCTGGGGTCATCAGGACGGACCCATCATGGCTGTCTTTTGGCCCCACCCCTGCCGTCACT
TCTTTCCTTTCTCCGTGGCTGGCTTCCCGCACTAGGGAACGGGTGTAAATGGGGAACATGACTTCCTTCCGGAGT
CCTTGAGCACCTCAGCTAAGGACCGCAGTGCCCTGTAGAGTTCCTAGATTACCTCACTGGGAATAGCATTGTGCG
TGTCGGGAAAAGGGCTCCATTTGGTTCCAGCCCACTCCCTCTGCAAGTGCCACAGCTTCCCTCAGAGCATACTC
TCCAGTGGATCCAAGTACTCTCTCTCTAAAGACACCACCTTCTGCCAGCTGTTTGCCTTAGGCCAGTACACA
GAATTAAAGTGGGGGAGATGGCAGACGCTTCTGGGACCTGCCCAAGATATGTATTCTCTGACACTCTTATTGG
TCATAAAACAATAAATGGTGTCAATTC

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FIGURE 4659

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCGGATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGATGTTCCCTTTGGCCACATATATGTGAATCTATAAGAAAGGTGATACTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGGGTTACCATGGCAAACTGGAAGAGTCTACA
ATGTTCCCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATAAAGCACTCTAAGAGCCGAGATAGCTTCCTGGAACGCGTGAAGGAAAATGATCAGAAAA
AGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCACCAGCCTGCTCCACCCAGGGAAGCACACTTTG
TGAGAACCAACGGGAAGGCGCCTGAGCTGCTGGAACCTATTCCCTATGAATTCATGGCATAATAGGTGTTAAACA
AAAAAAAAATAAAGGATCTCTGGGCTAC

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FIGURE 4660

MRTQRRERGEAPDICS LGLENMEMFLWPHICEIYKKGDTVDIKGMGT VQKGMPHKGYHGKTGRVYNVPQHAVGIV
V NKQVKGKILAKRINVRIEHIKHSKSRDSFLERVKENDQKKKEAKEKGTWVQLKHQPAPPREAHFVRTNGKAPEL
LEPIPYEFMA

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FIGURE 4661

GAAAGATGGCGGCTACCTTACTAGCTGCTCGGGGAGCCGGGCCAGCACCGGCTTGGGGGCCGGAGGCGTTCCTC
CAGACTGGGAAAGCCGAGAAGTTTCCACTGGGACCCTATCATGGCCGTGCAGTTTGACGGGGGCGTGGTTCTGG
GGGCGGACTCCAGAACAACCACTGGGTCCTACATCGCCAATCGAGTGAAGCTGACACCTATTCACGACC
GCATTTTCTGCTGTCGCTCAGGCTCAGCTGCTGATACCCAGGCAGTAGCTGATGCTGTACCTACCAGCTCGGTT
TCCACAGCATTGAACTGAATGAGCCTCCACTGGTCCACACAGCAGCCAGCCTCTTTAAGGAGATGTGTTACCGAT
ACCGGGAAGACCTGATGGCGGGAATCATCATCGCAGGCTGGGACCCTCAAGAAGGAGGGCAGGTGTACTCAGTGC
CTATGGGGGGTATGATGGTAAGGCAGTCCTTTGCCATTGGAGGCTCCGGGAGCTCCTACATCTATGGCTATGTTG
ATGCTACCTACCGGGAAGGCATGACCAAGGAAGAGTGTCTGCAATTCAGTCCAATGCTCTCGCTTTGGCCATGG
AGCGGGATGGCTCCAGTGGAGGAGTGATCCGCCTGGCAGCCATTGCAGAGTCAGGGGTAGAGCGGCAAGTACTTT
TGGGAGACCAGATACCCAAATTCGCCGTTGCCACTTTACCACCCGCCTGAATCCTGGGATTCTAGTATGCAATAA
GAGATGCCCTGTACTGATGCAAAATTTAATAAAGTTTGTACAGAG

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FIGURE 4662

MAATLLAARGAGPAPAWGPEAFTPDWESREVSTGTTIMAVQFDGGVVLGADSRTTGTSGSYIANRVTDKLTPIHDRI
FCCRSgsAAdTQAVADAVTYQLGFHSIELNEPPLVHTAASLFKEMCYRYREDLMAGIIIAGWDPQEGGQVYSVPM
GMMVRQSFAIGSGSSYIYGVDATYREGMTKEECLQFTANALALAMERDGSSGGVIRLAAIAESGVERQVLLG
DQIPKFAVATLPPA

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FIGURE 4663

GGGGGAAGATGGCGGCAGCCGTTCTGAGTGGGCCCTCTGCGGGCTCCGCGGCTGGGGTTCTGGCGGGACCGGGG
GTCTCTCGGCAGTGAGCTCGGGCCCGCGCTCCGCCTGCTGCTGCTGAGAGTGTCTTCTGGTTTGCTGCAACCTC
GAACGGGGTCTGCCGTTGCTCCGGTGCATCCCCAAACCGCTCGGCCACATTTGCCCGGGCTCATGTGCCATAT
TGC GGCTGCATGGGTGCGTGGGCGGGGCCAGAACCTTTAGCTCTTGGGGCATTGGTGAGTCTCAGTAATGCAC
GTCXIXXCAGTTCCATCAAACTCGGTTTGAGGGCCTGTGTCTGCTGTCCCTGCTGGTAGGGGAGAGCCCCACAG
AGCTATTCAGCAGCACTGTGTGCTTGGCTTCGGAGCATTAGCAGGTGTTACAGACCCAGGACCCGCTGCCA
CAATGGAGCTGGCCGTGGCTGTCTGAGGGACCTCCTCCGATATGCAGCCAGCTGCCTGCACTGTTCCGGGACA
TCTCCATGAACCACCTCCCTGGCCTTCTCACCTCCCTGCTGGGCCTCAGGCCAGAGTGTGAGCAGTCAGCATTGG
AAGGAATGAAGGCTTGATGACCTATTTCCCTCGGGCTTGTTGTTCTCTCAAAGGCAAGCTGGCCTCATTTTTTC
TGTCTAGGGTGGATGCCTTGAGCCCTCAGCTCCAACAGTTGGCCTGTGAGTGTATTCCCGGCTGCCCTCTTTAG
GGGCTGGCTTTTCCCAAGGCCTGAAGCACACCGAGAGCTGGGAGCAGGAGCTACACAGTCTGCTGGCCTCACTGC
ACACCCTGCTGGGGGCCCTGTACGAGGGAGCAGAGACTGCTCCTGTGCAGAATGAAGGCCCTGGGGTGGAGATGC
TGCTGTCTCAGAAAGATGGTGATGCCCATGTCTTCTCCAGCTTCGGCAGAGGTTTTCGGGACTGGCCCGCTGCC
TAGGGCTCATGCTCAGCTCTGAGTTTGAGAGCTCCCGTGTCCGTCCCTGTGCAGGAAATCCTGGATTTCATCTGCC
GGACCCTCAGCGTCAGTAGCAAGAATATTAGCTTGCATGGAGATGGTCCCCTGCGGCTGCTGCTGCTGCCCTCTA
TCCACCTTGAGGCCTTGACCTGCTGTCTGCACTCATCTCGCGTGTGGAAGCCGGCTCTTGCGCTTTGGGATCC
TGATCGGCCGCTGCTTCCCCAGGTCTCAATTCTGGAGCATCGGTAGAGATTCCCTCTCTCCAGGCCAGGAGA
GGCCTTACAGCACGGTTCGGACCAAGGTGTATGCGATATTAGAGCTGTGGGTGCAGTTTTGTGGGGCCTCGGCGG
GAATGCTTCAGGGAGGAGCCTCTGGAGAGGCCCTGCTCACCACCTGCTCAGCGACATCTCCCCGCCAGCTGATG
CCCTTAAGCTGCGTAGCCCCGCGGGGGAGCCCTGATGGGAGTTTGAGACTGGGAAGCCTAGCGCCCCCAAGAAGC
TAAAGCTGGATGTGGGGGAAGCTATGGCCCCGCCAAGCCACCGGAAAGGGGATAGCAATGCCAACAGCGACGTGT
GTGCGGCTGCACTCAGAGGCCTCAGCCGACCATCTCATGTGTGGGCCTCTCATCAAGGAGGAGACTCACAGGA
GACTGCATGACCTGGTCTCTCCCCCTGGTCATGGGTGTACAGCAGGGTGAGTCTTAGGCAGCTCCCCGTACACGA
GCTCCCCGCTGCCGCCGTGAACCTCTACTGCCTGCTGCTGGCGCTGCTGCTGGCCCCGTCTCCTCGCTGCCACCTC
CTCTTGCCCTGTGCCCTGCAAGCCTTCTCCCTCGGCCAGCGAGAAGATAGCCTTGAGGTCTCCTCTTTCTGCTCAG
AAGCACTGGTGACCTGTGCTGCTCTGACCCACCCCCGGGTTCTCCCTGCAGCCCATGGGCCCCACCTGCCCCA
CACCTGCTCCAGTTCCCCCTCCTGAGGCCCCATCGCCCTTCAGGGCCCCACCGTTCCATCCTCCGGGCCCCATGC
CCTCAGTGGGCTCCATGCCCTCAGCAGGCCCCATGCCTTCAGCAGGCCCCATGCCCTCAGCAGGCCCTGTGCCCT
CGGCACGCCCTGGACCTCCACACAGCCAACACCTAGGCCTTTCTGTCCAGGCCTAGTGTCTGTCCCTCCCC
GGCTTCTTCTGCGCCTGAGAACCACGGGCAGGCTCAAATGAGGACCCCATCCTTGCCCCCTAGTGGGACTCCCC
CACCTACTATACCCCCAGATGAACTTTTGGGGGGAGAGTGCCAGACCAGCCTTTGTCCACTATGACAAGGAGG
AGGCATCTGATGTGAGATCTCCTTGGAAGTGACTCTGATGACAGCGTGGTGATCGTGCCCGAXGGGGCTTCCC
CCCCCTGCCACCCCCACACCTCAGGTGCCACACCACCCCTATAGCCCCACTGGGCCACCAACAGCCTCCCC
TCTGTGCCAGCGAAGGAGGAGCCTGAAGAACTTCTGTCAGCCCCAGGGCCTCTCCCGCCACCCCCACCTCCGCC
GCCGCTGTTCTTGGTCTGTGACGCTCCCTCCACCCAGTTGGTCCCTGAAGGGACTCCTGGTGGGGGAGGACC
CCCAGCCCTGGAAGAGGATTTGACAGTTATTAATATCAACAGCAGTGATGAAGAGGAGGAGGAAGAGGAAGAAGA
GGAAGAAGAAGAAGAGGAAGAAGAGGAAGAGGAGGAAGACTTTGAGGAAGAGGAAGAGGATGAAGAGGAATATT
TGAAGAGGAAGAAGAGGAGGAAGAAGAGTTTGAGGAAGAATTTGAGGAAGAAGAAGGTGAGTTAGAGGAAGAAGA
AGAAGAGGAGGATGAGGAGGAGGAAGAAGAAGTGAAGAGGTGGAAGACCTGGAGTTTGGCACAGCAGGAGGGGA
GGTAGAAGAAGGTGCACCTCCACCCCCAACCTGCCTCCAGCTCTGCCTCCCCCTGAGTCTCCCCCAAAGGTGCA
GCCAGAACCCGAACCTGAACCCGGGCTGCTTTTGAAGTGGAGGAGCCAGGGACGGAGGAGGAGCGTGGGGCTGA
CACAGCTCCACCCCTGGCCCCCTGAAGCGCTCCCTCCAGGGAGAGGTGGAGAGGGAAGGGGAAAGCCCTGCGGC
AGGGCCCCCXTXCXXCCAGGAGCTTGTTGAAGAAGAGCCCTCTGCTCCCCCAACCCTGTTGGAAGAGGAGACT
GAGGATGGGAGTGACAAGGTGCAGCCCCACAGAGACACCTGCAGAAGAAGAGATGGAGACAGAGACAGAGGCC
GAAGCTCTCCAGGAAAAGGAGCAGGATGACACAGCTGCCATGCTGGCCGACTTCATCGATTGTCCCCCTGATGAT
GAGAAGCCACCACCTCCACAGAGCCTGACTCCTAGCCATCTTCTGCACCCCACTCTTTGTTTCCAATAAAGTTA
TGTCCTTAGATAGCG

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FIGURE 4664

MAAAVLSGPSAGSAAGVPGGTGGLSAVSSGPRLRLLLLESVSGLLQPRTGSAVAPVHPPNRSAPHLPGLMCLLRL
HGSVGGAQNLSALGALVSLSNARLSSIKTRFEGLCLLSLLVGESPTELFQQHCVSWLRSIQQVLQTQDPPATMEL
AVAVLRDLLRYAAQLPALFRDISMNHLPGLLTSLGLRPECEQSALEGMKACMTYFPRACGSLKGKLASFFLSRV
DALSPQLQQLACECYSRLPSLGAGFSQGLKHTEWEQELHSLLASLHTLLGALYEGAETAPVQNEGPGVEMLLSS
EDGDAHVLLQLRQRFSGLARCLGLMLSSEFGAPVSVPVQEILDFICRTLSVSSKNISLHGDGPLRLLLLPSIHLE
ALDLLSALILACGSRLRLRFGILIGRLLPQVLNSWSIGRDSLSPGQERPYSTVVRTKVYAILLELWVQVCGASAGMLQ
GGASGEALLTHLLSDISPPADALKLRSPRGSPDGSQTGKPSAPKKLKLDVGEAMAPPSHRKGDSNANSVDVCAA
LRGLSRTILMCGPLIKEETHRRLHDLVLPVLMGVQQGEVLGSSPYTSSRCRRELYCLLLALLLAPSPRCPPPLAC
ALQAFSLGQREDSLEVSSFCSEALVTCAALTHPRVPPLQPMGPTCPTPAPVPPPEAPSPFRAPFFHPPGMPSPVG
SMPSAGPMPSAGPMPSAGPVPSARPGPPTTANHLGLSVPLVSVPPRLLPGPENHRAGSNEDFILAPSGTTPPTI
PPDETFFGGRVPRPAFVHYDKEEASDVEISLESDDSVVIVPEGLPPLPPPPPSGATPPPIAPTGPPTASPPVPA
KEEPEELPAAPGPLPPPPPPPPPPVPGPVTLPPLPQLVPEGTPGGGGPPALEEDLTVININSSDEEEEEEEEEEEEE
EEEEEEEEEDFEEEEDEEEYFEEEEEEEEEEFEEFEEFEEGELEEEEEEEDEEEEEEELEEVEDLEFGTAGGEVEEG
APPPPTLPPALPPPESPPKVQPEPEPEPEGLLLEVEEPGTEEERGADTAPTLAPEALPSQGEVEREGESPAAGPPP
QELVEEEP SAPPTLLEEETEDGSDKVQPPPETPAEEEMETETEAALQEKEQDDTAAMLADFIDCFPDDEKPPPP
TEPDS

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FIGURE 4665

ACAGCGAGCGGAGCCGCGGTCCGGACGGCAGCGCGTGCCCCGAGCTCTCCGCCCTCCCCCGCCCGCCAGCCGAGG
CAGCTCGAGCCCAGTCCGCGGCCCCAGCAGCAGCGCCGAGAGCAGCCCCAGTAGCAGCGCCATGGCCGGGTGGAA
CGCCTACATCGACAACCTCATGGCGGACGGGACCTGTCAGGACGCGGCCATCGTGGGCTACAAGGACTCGCCCTC
CGTCTGGGCCCGCGTCCCCGGGAAAACGTTTCGTCAACATCACGCCAGCTGAGGTGGGTGTCCTGGTTGGCAAAGA
CCGGTCAAGTTTTTACGTGAATGGGCTGACACTTGGGGGCCAGAAATGTTCCGGTGATCCGGGACTCACTGCTGCA
GGATGGGGAATTTAGCATGGATCTTCGTACCAAGAGCACCGGTGGGGCCCCCACCTTCAATGTCACTGTCACCAA
GACTGACAAGACGCTAGTCCTGCTGATGGGCAAAGAAGGTGTCCACGGTGGTTTGATCAACAAGAAATGTTATGA
AATGGCCTCCACCTTCGGCGTTCCAGTACTGACCTCGTCTGTCCCTTCCCCTTCACCGCTCCCCACAGCTTTG
CACCCCTTTCCTCCCCATACACACAAAACATTTTATTTTTTGGGCCATTACCCCATACCCCTTATTGCTGCCA
AAACCACATGGGCTGGGGGCCAGGGCTGGATGGACAGACACCTCCCCCTACCCATATCCCTCCCGTGTGTGGTTG
GAAAACTTTGTTTTTTGGGGTTTTTTTTTCTGAATAAAAAAGATTCTACTAACAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 4666

MAGWNAYIDNLMADGTCQDAAIVGYKDSPSVWAAVPGKTFVNITPAEVGVLVGKDRSSFYVNGLTLLGGQKCSVIR
DSLQLQDGEFSMDLRTKSTGGAPTFNVTVTCTDKTLVLLMGKEGVHGGLINKKCYEMASHLRRSQY

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FIGURE 4667A

GGGGGGTCGGTGTGGGGTAGAATGGCCGCTGCCGCCGTCACCCGCGGGACCCCGGGAGCACAGACTCCCCCTCCC
CCCCGGCCCTCAGGCCGGGGGTGACCTTGCCCCCTGGAGCCCTCACCATGAAATACCAAGGACACCACCGAGGTTG
CTGAAAACAGCCACCACCTGAAGATCTTTCTCCCCAAGAAGCTGCTGGAGTGTCTTCTCGCTGCCCGCTGCTGC
CTCCAGAGAGGCTACGGTGAATACAAATGAGGAGATTGCATCCTACCTGATCACCTTTGAGAAGCATGATGAGT
GGCTGTCTTGTGCCCCAAAGACAAGGCCCTCAGAATGGCTCCATCATCCTCTACAATCGCAAGAAGGTGAAATATC
GGAAGGATGGTTACCTCTGGAAGAAGCGGAAGGATGGGAAGACCACCCGAGAGGACCACATGAAGCTGAAGGTCC
AGGGCATGGAGTGTCTCTATGGCTGCTACGTTCACTCTTCCATCGTCCCCACATTCCATCGGCGCTGCTACTGGC
TGCTCCAGAACCCTGACATCGTCCCTGTGCACTACCTGAACGTCCCAGCCCTGGAGGACTGTGGAAAGGGCTGCA
GCCCCATCTTTTGTTCATCAGCAGCGACCGTCGAGAGTGGCTGAAGTGGTCCCGGGAGGAGTTGTTGGGACAGC
TGAAGCCCATGTTTCATGGCATCAAGTGGAGCTGCGGGAATGGAACAGAAGAGTTCTCTGTAGAACACCTGGTGC
AGCAGATTTTGGACACCCACCCAACCAAGCCTGCTCCCCGAACCCACGCCTGTCTCTGCAGTGGGGGGCTTGGTT
CTGGGAGCCTTACCCACAAATGCAGCAGCACGAAACACCGCATCATCTCTCCAAAGTGGAGCCCCGAGCTTTAA
CCCTGACCTCTATCCCCACGCTCACCCCCCAGAGCCTCCTCCACTGATAGCCCCACTTCCCCCAGAGCTCCCCA
AGGCACACACCTCCCCATCTTCTTCCTCTTCTTCCTCCTCATCAGGTTTTGCAGAGCCCCCTAGAAATCAGACCTA
GCCCTCCCACTTCTCGAGGGGGTTCCTCAAGAGGAGGCACTGCTATCCTCCTCCTGACAGGACTGGAGCAGCGGG
CTGGAGGCTTGACGCCCCACCAGGCACTTGGCTCCACAGGCTGATCCTAGGCCTTCCATGAGTTTGGCAGTGGTTG
TAGGCACTGAGCCTTCTGCCCCACCAGCTCCTCCAGTCTGCTTTGACCCTGATCGTTTTCTCAACAGCCCCC
AGAGGGGCCAGACATATGGAGGGGGCAGGGAGTAAGCCCAGACTTCCCCGAGGCAGAGGCCGCTCATACCCCT
GTTCTGCCCTAGAGCCTGCTGCTGCCCTGGAGCCCCAGGCAGCTGCTCGGGGTCCCCACCACAGTCAGTAGCAG
GTGGGAGAAGAGGAACTGCTTCTTCATCCAAGATGATGACAGTGGGGAGGAGCTCAAGGGTCACGGGGCTGCCC
CACCCATACCTTACCCCCCTCCCTCACCCCCACCCTCACCTGCCCCCTTGAGCCGTCAAGCAGGGTAGGAAGAG
GAGAGGCCTTGTGTTGGAGGACCTGTTGGGGCCAGTGAACCTGGAGCCCTTCAGTCTTTCATCATTCCAGACCTTA
TGGGAGAAGTATCAGTGACGAAGCTCCAAGCATCCCTGCTCCGACCCCCAGCTGTCTCCTGCTCTTAGCACCA
TCACAGACTTCTCCCCAGAGTGGTCCTACCCAGAGGGTGGGGTCAAGGTGCTCATCACAGGTCTTGGACCGAAG
CCGCCGAGCATTACTCTGTGTCTTTGATCACATCGCAGTGCCAGCCTCACTTGTCCAGCCTGGTGTCTTACGCT
GCTACTGTCCCGCCCATGAGGTAGGGCTGGTGTCTTTGCAGGTGGCAGGGCGGGAGGGGCCCTTTCTGCTTCTG
TGCTCTTTGAGTATCGAGCCCCGCGATTCTGTCTCTGCCTAGTACTCAACTTGACTGGCTGTCACTGGACGACA
ACCAGTTCGGGATGTCCATACTAGAGCGACTGGAGCAGATGGAGAAGCGGATGGCAGAGATCGCAGCAGCTGGGC
AGGTGCCTTGCCAGGGTCTGATGCTCCTCCAGTTCAGGATGAAGGCCAGGGGCCTGGGTTGGAAGCACGGGTAG
TGGTCTTGGTAGAAAGCATGATCCCACGCTCCACCTGGAAGGGTCTGAACGTCTGGCCCCATGGAAGCCCCCTTCC
GGGGCATGAGCCTTCTGCACCTGGCTGCTGCCCAGGGCTATGCCCGCCTCATCGAGACCCTGAGCCAGTGGCGGA
GTGTGGAGACTGGAAGCTTGGACTTAGAGCAGGAGGTTGACCCGCTCAACGTGGATCATTTCTCTTGCACCCCTC
TGATGTGGGCTTGTGCCCTGGGACACCTGGAAGCTGCTGTGCTCCTTTTCCGTTGGAACCGACAGGCACTGAGCA
TTCCCGACTCTCTGGGCCGTCTGCCATTGTCTGTGGCTCATTCCCGGGGTCTGTGCGCCTTGCCCGCTGCCTTG
AGGAATAACAGAGACAGGAGCCTTCGGTGGAGCCCCATTTGCCCTATCGCCACCCTCCTCCAGCCCAGACTG
GTCTGAGCAGCGTCTCCTCGCCCTCGGAGCTGTGCGATGGCACCTTTTCCGTACGTACGCTATTCTAGTGCCC
CAGATGGCAGTCCCCCCCCCTGCACCTCTGCCAGCCTCTGAGATGACTATGGAGGACATGGCCCCAGGCCAGCTTT
CCTCTGGTGTCCCAGAAGCCCCCCTACTCCTCATGGACTATGAGGCTACCAACTCCAAGGGGCCCTCTCCTCCC
TTCCCTGCCCTCCCACCAGCTTCAGATGATGGGGCTGCTCCAGAGGACGCTGACAGCCCACAGGCTGTGGATGTGA
TCCCGGTGGACATGATCTCACTAGCCAAGCAGATCATCGAAGCCACACCGGAGCGGATTAAACGAGAGGACTTCG
TGGGGCTGCCCAGGCTGGAGCCTCAATGCGGGAGCGGACAGGGGCTGTGGGGCTCAGTGAGACCATGTCTGGC
TGGCCAGCTACCTGGAGAATGTGGACCAATTCCCCAGCTCAACCCCTCCAGCGAACTGCCCTTTGAGCGAGGTC
GCCTGGCTGTCCCTTCAGCACCCCTCCTGGGCAGAGTTTCTCTCTGCATCCACCAGTGGCAAGATGGAAGTGATT
TTGCCCTGCTGACACTATCAGATCACGAGCAGCGGGAAGTGTATGAGGCTGCCCGAGTCATCCAGACGGCCTTCC
GAAAGTACAAGGGCCGGCGGCTGAAGGAGCAGCAGGAGGTAGCAGCAGCTGTAATCCAGCGCTGTTACCGGAAGT
ACAAGCAGCTGACCTGGATTGCACTTAAGTTGCACTCTATAAGAAGATGACCCAGGCGGCCATCCTGATCCAGA
GCAAGTTCGAAGCTACTATGAACAGAAGCGATTTACGAGAGCCGCCGAGCGGCTGTGCTCATCCAGCAGCACT
ACCGCTCCTACCGCCGAGGCCCGGGCCCTCCCCACCGGACTTCGGCCACCCTGCCTGCCCGCAACAAAGGCTCCT

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FIGURE 4667B

TTCTCACCAAGAAGCAGGACCAGGCAGCCCGGAAGATCATGAGATTCTGCGGCGCTGCCGACACAGGATGAGGG
AACTGAAGCAGAACCAGGAGCTGGAAGGGCTTCCCCAGCCGGGACTGGCCACATGACCTGGCCACCGCCTTTCTC
ACCACCCTGGGGGCGCCTCGTGCACTCTTAACAGGGAGAGGGCTTTCTGGGGCAGGGGGAGCCCCGTGTCGGCAGC
TTTCCTGTTCACCTTTGTTGGAGCCCTCTGTAGGCCTCCTCCCTCCTCCCCACGCCTTGCTCCACACCCCTCTC
CTCGTCCCTCCTGGTCGTGCCCCGTCTCTTTTGGTCCTGGCTCCAGAAAACCCGCGCCCCACATACCTGCATCTT
CCGCTGTGACCTCCGGAGCCCTGCCTGCCCCCTGCTCCCCAGCTCCTCCTGCCTGCACCCGACTCGGCCCCCTCCT
GACTTGCTTATTTATTTGTTTCGACGCGTCTCTGAATGTATCCGCCTCGGTTCCCACCACTGCCTTCGCTGCGCA
CGCCCCCTCGTGTTTCAGGGCTGACCGTGTCCCCACCCGACTCCGCATGTTTGCGTCTGTTTCCTCCCTCTCTGGC
CCTGTCTTACCCCATCACCCGACTCTGGCCACTGACCTCAGGGCCGAAGGGGAGGTGGTGTACATAGGAACGCGT
TGCGGAGTCCGCCCCGTCCCCCGAGGGGAGGGGTCTTGTACATACTGTAACATACAGAGTATAGTGAAGAATCTA
TTTAAGGCGCCGCGGGGAGGGCTGCACGGCCGGGCTTGTGGTTCTCTAGCGCGGGCGGGGGCCTCCTGCCGGCTCC
ACGGGCACTTTCTACTTGTGTCATGGGCTTGGTTTATACGAATTGCCATTAAACATCGCTGCACC

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FIGURE 4668

MNTKDTTEVAENSHHLKIFLPKKLLECLPRCPLLPPERLRWNTNEEIASYLITFEKHDEWLSCAPKTRPQNGSII
LYNRKKVKYRKDGYLWKKRKDGKTTREDHMKLVQGMCELYGCVHSSIVPTFHRRCYWLLQNPDIVLVHYLNVP
ALEDCGKGCSPIFCSISSDRREW LKWSREELLGQLKPMFHGIKWSCGNGTEEF SVEHLVQQILDTHPTKPAPRTH
ACLCSGGLGSGSLTHKCSSTKHRIISP KVEPRALTLSIPHAHPPEPPPLIAPLPPELPKAHTSPSSSSSSSSSG
FAEPLEIRPSPPTSRGGSSRGGTAILLLTGLEQRAGGLTPTRHLAPQADPRPSMSLAVVVGTEPSAPPAPPSPAF
DPDRFLNSPQRGQTYGGGQGVSPDFPEAEAAHTPCSALEPAAALEPQAAAARGPPPQSVAGGRRGNCFFIQDDDSG
EELKGHGAAPP IPSPPPSPPPSPAPLEPSSRVGRGEALFGGPVGASELEPFSLSFFPDLMGELISDEAPSIPAPT
PQLSPALSTITDFSP EWSYPEGGVKVLITGPWTEAAEHYSCVFDHIAVPASLVQPGVLR CYCPAHEVGLVSLQVA
GREGPLSASVLF EYRARRFLSLPSTQLDWLSLDDNQFRMSILERLEQMEKRMAEIAAAGQVPCQGPDAPPVQDEG
QGPGFEARVVVLVESMIPRSTWKGPERLAHGSPFRGMSLLHLAAAQGYARLIETLSQWRSVETGSLDLEQEVDP L
NVDHFSCTPLMWACALGHLEAAVLLFRWNRQALSIPDSLGRPLPSVAHSRGHVRLARCLEELQRQEPSVEPPFAL
SPSSSPDTGLSSVSSPSELSDGTF SVTSAYSSAPDGSPPPAPLPASEMTMEDMAPGQLSSGVPEAPLLLMDYEA
TNSKGPLSSLPALPPASDDGAAPEDADSPQAVDVIPVDMISLAKQIIIEATPERIKREDFVGLPEAGASMRERTGA
VGLSETMSWLASYLENVDHFP SSTPPSELPFERGRLAVPSAPSWAEFLSASTSGKMESDFALLTSLDHEQRELYE
AARVIQTAFRKYKGRRLKEQQEVAAAVIQRCYRKYKQLTWIALKFALYKKMTQAAILIQSKFRSYEQKRFQQSR
RAAVLIQQHYRSYRRRP GPPHRTSATLPARNKGSFLT KQDQAARKIMRFLRRCRHRMRELKQNQELEGLPQPG L
AT

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FIGURE 4669

AGGACGTGGGCGTGCAGGACGCGGGCGTGCAGGACGCCAGAGCTGGGTCAGAGCTCGAGCCAGCGGCGCCCGGAG
AGATTCGGAGATGCAGGCGGCTCGGATGGCCGCGAGCTTGGGGCGGCAGCTGCTGAGGCTCGGGGGCGGAAGCTC
GCGGCTCACGGCGCTCCTGGGGCAGCCCCGCGCCCGGCTGCCGGCGGCCCTATGCCGGGGGTGCCGCTCAGCT
GGCTCTGGACAAGTCAGATTCCCACCCCTCTGACGCTCTGACCAGGAAAAACCGGCCAAGGCGGAATCTAAGTC
CTTTGCTGTGGGAATGTTCAAAGGCCAGCTCACCACAGATCAGGTGTTCCCATACCCGTCCGTGCTCAACGAAGA
GCAGACACAGTTTCTTAAAGAGCTGGTGGAGCCTGTGTCCCGTTTCTTCGAGGAAGTGAACGATCCCGCCAAGAA
TGACGCTCTGGAGATGGTGGAGGAGACCACTTGGCAGGGCCTCAAGGAGCTGGGGGCTTTGGTCTGCAAGTGCC
CAGTGAGCTGGGTGGTGTGGGCCTTTGCAACACCCAGTACGCCCGTTTGGTGGAGATCGTGGGCATGCATGACCT
TGGCGTGGGCATTACCCTGGGGGCCCCATCAGAGCATCGGTTTCAAAGGCATCCTGCTCTTTGGCACAAAGGCCCA
GAAAGAAAAATACCTCCCCAAGCTGGCATCTGGGGAGACTGTGGCCGCTTTCTGTCTAACCGAGCCCTCAAGCGG
GTCAGATGCAGCCTCCATCCGAACCTCTGCTGTGCCAGCCCCCTGTGGAAAATACTATACCCTCAATGGAAGCAA
GCTTTGGATCAGTAATGGGGGCTTAGCAGACATCTTCACGGTCTTTGCCAAGACACCAGTTACAGATCCAGCCAC
AGGAGCCGTGAAGGAGAAGATCACAGCTTTTGTGGTGGAGAGGGGCTTCGGGGGATTACCCATGGGCCCCCTGA
GAAGAAGATGGGCATCAAGGCTTCAAACACAGCAGAGGTGTTCTTTGATGGAGTACGGGTGCCATCGGAGAACGT
GCTGGGTGAGGTTGGGAGTGGCTTCAAGGTTGCCATGCACATCCTCAACAATGGAAGGTTTGGCATGGCTGCGGC
CCTGGCAGGTACCATGAGAGGCATCATTGCTAAGGCGGTAGATCATGCCACTAATCGTACCCAGTTTGGGGAGAA
AATTCACAACCTTTGGGCTGATCCAGGAGAAGCTGGCACGGATGGTTATGCTGCAGTATGTAAGTGAAGTCCATGGC
TTACATGGTGAAGTGTAAATGACATGGACAGGGAGCCACGGACTTCCAGATAGAGGCCGCCATCAGCAAAATCTTTGG
CTCGGAGGCAGCCTGGAAGGTGACAGATGAATGCATCAAATCATGGGGGGTATGGGCTTCATGAAGGAACCTGG
AGTAGAGCGTGTGCTCCGAGATCTTCGCATCTTCCGGATCTTTGAGGGGACAAATGACATTCTTCGGCTGTTTGT
GGCTCTGCAGGGCTGTATGGACAAAGGAAAGGAGCTCTCTGGGCTTGGCAGTGCTCTAAAGAATCCCTTTGGGAA
TGCTGGCCTCCTGCTAGGAGAGGCAGGCAAACAGCTGAGGCGGCGGGCAGGGCTGGGCAGCGGCTGAGTCTCAG
CGGACTTGTCCACCCGGAGTTGAGTCGGAGTGGCGAGCTGGCAGTACGGGCTCTGGAGCAGTTTGCCACTGTGGT
GGAGGCCAAGCTGATAAAACACAAGAAGGGGATTGTCAATGAACAGTTTCTGCTGCAGCGGCTGGCAGACGGGGC
CATCGACCTCTATGCCATGGTGGTGGTCTCTCGAGGGCCTCAAGATCCCTGAGTGAGGGCCACCCACGGCCCA
GCATGAGAAAATGCTCTGTGACACCTGGTGTATCGAGGCTGCAGCTCGGATCCGAGAGGGCATGGCCGCCCTGCA
GTCTGACCCCTGGCAGCAAGAGCTCTACCGCAACTTCAAAGCATCTCCAAGGCCTTGGTGGAGCGGGGTGGTGT
GGTCACCAGCAACCCACTTGGCTTCTGAATACTCCCGGCCAGGGCCTGTCCAGTTATGTGCCTTCCCTCAAGCC
AAAGCCGAAGCCCTTTCTTAAGGCCCTGGTTTGTCCGAAGGGGCTAGTGTTCCAGCACTGTGCCTGCTCT
CAAGAGCACTTACTGCCTCGCAAATAATAAAATTTCTAGCCAG

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FIGURE 4670

MQAARMAASLGRQLLRLLGGSSRLTALLGQPRPGPARRPYAGGAAQLALDKSDSHPSDALTRKKPAKESKFAV
GMFKGQLTTDQVFYPYPSVLNEEQTFKELVEPVSRFFEEVNDPAKNDALEMVEETTWQGLKELGAFGLQVPSEL
GGVGLCNTQYARLVEIVGMHDLGVGITLGAHQSIGFKGILLFGTKAQKEKYLPKLASGETVAAFCLTEPSSGSDA
ASIRTSAPVSPCGKYITLNGSKLWISNGGLADIFTVFAKTPVTDPATGAVKEKITAFVVERGFGGITHGPPEKKM
GIKASNTAEVFFDGVVRVPSENVLGEVSGSKVAMHILNNGRFGMAAALAGTMRGIIAKAVDHATNRTQFGEKIH
FGLIQEKLARMVMLQYVTESMAYMVSANMDQGATDFQIEAAISKIFGSEAAWKVTDECIQIMGGMGFMKEPGVER
VLRDLRIFRIFEGTNDILRLFVALQGCMDKGKELSGLSALKNPFGNAGLLLGEAGKQLRRRAGLGSGLSLSGLV
HPELSRSGELAVRALEQFATVVEAKLIKHKKGIVNEQFLLQRLADGAIDLYAMVVLSRASRSLSEGHPTAQHEK
MLCDTWCIEAAARIREGMAALQSDPWQQELYRNFKSISKALVERGGVVTSNPLGF

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FIGURE 4671

GAGACCATGGCGGGTAGCAGCACTGGGGGCGGTGGGGTTGGGGAGACGAAGGTGATTACCACCTGGATGAGGAA
GAGACTCCCTACCTGGTGAAGATCCCTGTCCCCGCCGAGCGCATCACCTCGGCGATTCAAGAGCGTCCTGCAG
CGGCCCCGCGGGCGCCAAGTACTTTTTCAAGTCTATGGATCAGGATTTGGGGTGGTGAAGGAAGAAATTTTCAGAT
GACAACGCCCCGCTCCCTGCTTCAACGGAAGGGTGGTATCCTGGCTGGTGTCTCAGATAATCCCCAACCCGAG
ATGGCCCCCTCCAGTCCATGAGGCTCGGGCAGAACTGGCGCCTCCAGCCCCACCTTTACCTCCTTTGCCACCCGAG
AGGACCAGCGGCATTGGGGACTCAAGGCCTCCATCCTTCCACCCTAATGTGTCCAGCAGCCATGAGAATCTGGAG
CCTGAGACAGAAACCGAGTCAGTAGTGTCACTGAGGCGGGAGCGGCCTCGCAGGAGAGACAGCAGTGAGCATGGC
GCTGGGGGCCACAGGACTGGTGGCCCCCTCAAGGCTGGAGCGCCACCTGGCCGGATACGAGAGCTCCTCTACCCTC
ATGACCAGCGAGCTGGAGAGTACCAGCCTGGGGGACTCGGACGAGGAGGACACCATGAGCAGGTTTCAGCAGCTCC
ACGGAGCAGAGCAGTGCCCTCCCGCCTCCTTAAGCGCCACCGGCGGGCGAAGGAAGCAGAGGCCACCCCGCCTGGAG
AGGACGTCATCCTTCAGCAGCGTCACAGATTCCACAATGTCTCTCAATATCATCACAGTCACGCTAAACATGGAG
AAGTACAACCTTCTGGGTATCTCCATTGTTGGCCAGAGCAATGAGCGGGGAGACGGAGGCATCTACATTGGCTCC
ATCATGAAGGGTGGGGCTGTGGCGGCCGACGGGCGCATTGAGCCAGGGGACATGCTTTTGAGGTGAATGACATG
AACTTTGAGAACATGAGCAACGATGACGCTGTGCGGGTGTGTGAGGGACATTGTGCACAAGCCTGGCCCCATTGTG
CTGACTGTGGCCAAGTGCTGGGATCCCTCTCCTCAGGCCTATTTCACTCTCCCCGAAATGAGCCCATCCAGCCA
ATTGACCCTGCTGCCTGGGTGTCCCATTCGCGGGCTCTGACTGGCACCTTCCCAGCCTATCCAGGTTCTCTCTCC
ATGAGCACCATTACATCTGGATCGTCTTTGCCTGATGGCTGTGAAGGCCGGGGTCTCTCCGTCCATACGGACATG
GCATCGGTGACCAAGGCCATGGCAGCTCCAGAGTCTGGACTGGAAGTCCGGGACCGCATGTGGCTCAAGATCACC
ATCCCTAATGCCTTTCTGGGCTCGGATGTGGTTGACTGGCTCTACCATCACGTGGAGGGCTTTCTTGAGCGGCGG
GAGGCCCGCAAGTATGCCAGCGGGCTGCTCAAAGCAGGCCTGATCCGACACACCGTCAACAAGATCACCTTCTCT
GAGCAGTGCTATTACGTCTTCGGAGACCTCAGTGGTGGCTGTGAGAGCTACCTAGTCAACCTGTCTCTCAATGAC
AACGATGGCTCCAGTGGGGCTTCAGACCAGGATACCCTGGCTCCTCTGCCTGGGGCCACCCCCTGGCCCCCTGCTG
CCCCTTTCTCCTACCACTACCTGCCCCACACCCCTACAGCCCGCAGCCTCCACCCTACCATGAGCTTTTCATCT
TACACCTATGGTGGGGGAGTGGCAGCAGCCAGCATAGTGAGGGCAGCCGGAGCAGTGGGTGACACGGAGTGAT
GGGGGGGAGGGCGCACGGGGAGGCCCGAGGAGCGGGCCCCCGAGTCCAAGTCCGGCAGTGGCAGTGAGTCTGAG
CCCTCCAGCCGAGGGGGCAGCCTTCGGCGGGGTGGGGAAGCAAGTGGGACTAGCGATGGGGGGCCCTCCTCCATCC
AGAGGCTCAACTGGGGGTGCCCTAATCTCCGAGCCACCCAGGGCTCCATCCCTATGGACCGCCCCCTGGCATG
GCCCTCCCCTACAACCCCATGATGGTGGTCATGATGCCCCACCTCCACCTCCAGTCCCTCCAGCAGTGCAGCCT
CCGGGGGGCCCTCCAGTCAGAGACCTGGGCTCTGTGCCCCAGAAGTACAGCCAGCCGCCAAAGCTTCCACATG
GCCATGGGCAATCCCAGCGAGTTCTTTGTGGATGTTATGTAGCCCACTGTGGGGCCAGGCTGGGCGGGGCGCTCC
TGGTGTGTGACTGGGTGTCTGGCCGTATGTGCTTGTCTTACAGTGCCTGGGCTCAGCCTACCAGCTGCTGCC
ATACAGGAGATTGTGGCCACTGTGACTCTCACCAGCAGTGCCGTGGTTCCCTCCCCCTTCCCTCAGGGGTAGACAAG
GGACCTTTGATTATTTTTAGCTTTGTTTTTTTATAAGCCTTTTTGGGGTTAAAATAGAGTTTCTTACATTTTTG
GGACTTTTTTAATAGGCATTTCTCTTTT

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FIGURE 4672

AAAAAAAAAAGAGGGAGGTGGCGGCAGCGGCTAGCGGACTCGAGTCTCAACCGGGCTGAGGCGGACACTTCTG
TGGAGCGAAGCAGTGGGAGCATCGAGCACTAGAGGCGGCACCGGGATCCCCGGCTCCGGGGAGGGGGGCGCCGGA
CCGGGAGGAGGGGAGGGGGCGATGCTGGAAGCCATGGCGGAGCCCAGTCCCGAAGATCCACCTCCGACCCTTAAG
CCAGAGACTCAGCCACCAGAGAAACGGCGGAGAAACAATTGAGGATTTCAACAAATTCTGCAGTTTTGTTTTGGCA
TATGCTGGTTACATTCCCCCTAGCAAAGAGGAAAGTGACTGGCCAGCCTCTGGCTCCAGCTCTCCATTGCGAGGA
GAGAGTGCGGCCGACAGTGATGGCTGGGACTCGGCCCCCTCAGATCTTCGAACCATCCAGACTTTTTGTTAAGAAA
GCAAAGTCATCCAAGAGAAGGGCAGCTCAAGCAGGTCCCACCCAGCCAGGACCCCCAAGGTCCACTTTCTCTCGT
CTGCAGGCCCCCGACAGTGCTACCTTGCTTGAGAAGATGAAGCTCAAGGACTCTCTCTTTGATCTGGATGGGCCC
AAAGTGGCATCTCCTTTGTCCCCCACATCCCTGACACATACCTCCCGGCCCCCTGCTGCTCTTACCCCCGTGCC
CTTTCCAGGGGGACCTCTCCCATCCTCCTCGAAAGAAGGACCGAAAGAACCAGAAAGTTGGGGCCAGGAGCTGGG
GCTGGCTTTGGGGTGCTTCGGAGGCCTCGGCCAACTCCTGGGGATGGGGAAAAGAGATCTCGAATCAAGAAGAGC
AAGAAGCGGAAGTTAAAAAAGGCAGAACGGGGGGATAGACTCCCACCTCCTGGGCCTCCCCAGGCACCCCCAGTG
ATACAGACTCTGAAGAGGAGGAGGAAGAGGAGGAAGAGGAAGAAGAAGAGATGGCAACAGTGGTAGGGGGTG
AAGCCCCAGTCCCTGTGCTGCCAACACCCCCCTGAGGCTCCTAGGCCCCCTGCCACAGTGCACCCTGAAGGAGTCC
CTCCTGCTGACAGTGAAAGCAAGGAGGTGGGCAGCACTGAAACAAGCCAAGATGGAGATGCCAGCTCCAGTGAAG
GCGAGATGCGGGTCATGGACGAGGACATCATGGTAGAATCAGGTGATGACTCATGGGATCTGATCACATGTTACT
GTCGAAAGCCCTTTGCAGGGCGGCCCATGATTGAGTGCAGCCTGTGTGGGACGTGGATCCACCTCTCCTGTGCTA
AGATTAAGAAGACCAACGTCCCCGACTTCTTTTATTGCCAGAAATGCAAGGAACTGAGGCCAGATGCCCCGGCGGT
TAGGGGGGCCCCCAAATCTGGAGAGCCCTGATGGCACCAACTTTAGCCTGGAACCTCCAAATGACAACATGATT
TGGGAACTGAGCCTCAGGGTCTCAGCCTATCCCCTGGAGCTTGATACTGTCTGCACTTCAAGGCAGGAATTCT
CAAGGGAGACTTGTTTGAAAATGAGTGTCTCACTTTCCACCCCTATCCTTCTCCCACTCTGTGGACTTGAAAT
TGAATCCATTACGGTTGGGGATGGGAGGCTGTCTGTGTCCCGACACATAATCTCTGTCTCTTGGACCTGCCACCA
TCACCTTTCTGGGTCAGGATTGGAATTGGGATGGAATGGGACAGTTGTCTATAAACTCTAGTGTAATATTAGCA
CTCCCCCTCCCTCATCTTTTCTTCTATTTCACTCCCCATTTATTTTCTTCTACACCGGTTGTATTTTTAATTTTG
ACTTCCCCTATTGGGCATGGCAGCTCAAAGGTGGAGTACTAGAGCCTGGCCAAGTGAGGAAGGAAAGCAGAAAGG
TGACGATTCTCACTCACCTCTTTTGTTTTAAATAATATCGGCCGCTGTTTGTACAGACAGCCTGCGTGTGTAA
TAAAGCAGGGTGGGCTCTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4673

MLEAMAEPSPEDPPPTLKPETQPPEKRRRTIEDFNKFCSFVLAYAGYIPPSKEESDWPASGSSSPLRGESAADSD
GWDSAPSDLRTIQTFFVKKAKSSKRRAAQAGPTQPGPPRSTFSRLQAPDSATLLEKMKLKDSLFDLDGPKVASPLS
PTSLTHTSRPPAALTPVPLSQGDLSHPPRKKDRKNRKLGPAGAGFGVLRPRPTPGDGEKRSRIKKS KKRKLKK
AERGDRLP PPGPPQAPPVIQTLKRRRKRRKRKKKKRWQQW

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FIGURE 4674

GCTCCGCTGAATCCGCCCCGCGCGTCGCCGCCGTCGTCGCCGCCCCCGTCCCGGCCCCCTGGGTTCCCTCAGCC
CAGCCCTGTCCAGCCCGGTTCCCGGGAGGATGAAGTTCGTGTACAAAGAAGAGCATCCGTTGAGAAGCGCCGCT
CTGAGGGCGAGAAGATCCGAAAGAAATACCCGGACCGGGTGCCGGTGATAGTAGAAAAGGCTCCCAAAGCTCGGA
TAGGAGACCTGGACAAAAAGAAATACCTGGTGCCTTCTGATCTCACAGTTGGTCAGTTCTACTTCTTGATCCGGA
AGCGAATTCATCTCCGAGCTGAGGATGCCTTGTTTTCTTTGTCAACAATGTCATTCCACCCACCAGTGCCACAA
TGGGTCAGCTGTACCAGGAACACCATGAAGAAGACTTCTTTCTCTACATTGCCTACAGTGACGAAAGTGTCTACG
GTCTGTGAAGCTGCTGCCCCTGAGCTGGAGGGGGGTCTCATTCTACAAAGAGAGAGGTGGCCCCCTTTCTTGAC
CTCCTCCTCCTTCAAGCTCAAACACCACCTCCCTTATTAGGACCGGCACTTCTTAATGTTTGTGGCTTTCTCTC
CAGCCTCTCTTAGGAGGGGTAATGGTGGAGTTGGCATCTTGTAACCTCTCCTTTCTCCTTTCTTCCCCCTTTCTCTG
CCGCCTTTCCCATCCTGCTGTAGACTTCTTGATTGTCAGTCTGTGTCACATCCAGTGATTGTTTTGGTTTTCTGT
TCCCTTTCTGACTGCCCAAGGGGCTCAGAACCCAGCAATCCCTTCCCTTTCACTACCTTCTTTTTTGGGGGTAGT
TGGAAGGGACTGAAATTGTGGGGGAAGGTAGGAGGCACATCAATAAAGAGGAAACCACCAAGCTG

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FIGURE 4675

CCGGCGGCGCCTCAGGTCGCGGGGCGCCTAGGCCTGGGTTGTCCTTTGCATCTGCACGTGTTGCGAGTCGTTTCC
GCGATGCTGCCTCTGCTGCGCTGCGTGCCCCGTGTGCTGGGCTCCTCCGTGCGCGGCTCCGCGCTGCCGCGCCC
GCCTCGCCTTTCCGGCAGCTCCTGCAGCCGGCACCCCGGCTGTGCACCCGGCCCTTCGGGCTGCTCAGCGTGCGC
GCAGGTTCCGAGCGGCGGCGGGCCCTCCTGCGGCCCTCGCGGACCCTGCGCCTGTGGCTGTGGCTGCGGCTCGCTG
CACACGACGGAGACAAAGCTTTTGTGATTTCCTGAGTGATGAAATTAAGGAGGAAAGAAAAATTCAGAAGCAT
AAAACCTCCCTAAGATGTCTGGAGGTTGGGAGCTGGAAGTGAATGGGACAGAAGCGAAATTAGTGCGGAAAGTT
GCCGGGAAAAAATCACGGTCACTTTCAACATTAACAACAGCATCCACCAACATTTGATGGTGAGGAGGAACCC
TCGAAGGGCAGAAGGTTGAAGAACAGGAGCCTGAACTGACATCAACTCCCAATTTTCGTGGTTGAAGTTATAAG
AATGATGATGGCAAGAAGGCCCTTGTGTTGGACTGTCATTATCCAGAGGATGAGGTTGGACAAGAAGACGAGGCT
GAGAGTGACATCTTCTCTATCAGGGAAGTTAGCTTTTCAGTCCACTGGCGAGTCTGAATGGAAGGATACTAATTAT
ACACTCAACACAGATTCTTGGACTGGGCCTTATATGACCACCTAATGGATTTTCCTTGCCGACCGAGGGGTGGAC
AACACTTTTGCAGATGAGCTGGTGGAGCTCAGCACAGCCCTGGAGCACCAGGAGTACATTACTTTTCTTGAAGAC
CTCAAGAGTTTTGTCAAGAGCCAGTAGAGCAGACAGATGCTGAAAGCCATAGTTTCATGGCAGGCTTTGGCCAGT
GAACAAATCCTACTCTGAAGCTAGACATGTGCTTTGAAATGATTATCATCCTAATATCATGGGGGAAAAAATACC
AAATTTAAATTATATGTTTTGTGTTCTCATTTATTATCATTTTTTTTCTGTACAAATCTATTATTTCTAGATTTTT
GTATAACATGATAGACATAAAATTGGTTTATCTCTCC

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FIGURE 4676

MLPLLRCVPRVLGSSVAGLRAAAPASPFRQLLQPAPRLCTRPFGLLSVRAGSERRPGLLRPRGPCACGCGCGLH
TDGDKAFVDFLSDEIKEERKIQKHKTLPKMSGGWELELNGTEAKLVRKVAGEKITVTFNINNSIPPTFDGEEEPS
QGQKVEEQEPELTSTPNFVVEVIKNDGKKALVLDCHYPEDEVGQEDAESESDIFSIREVSFQSTGESEWKDTNYT
LNTDSLWDWALYDHLMDFLADRGVDNTFADELVELSTALEHQEYITFLEDLKSFVKSQ

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FIGURE 4677

CCCGTTCCCTGGAGGCGCGCACAGACCCCTGGGAGGTGTACTTTCCGGGTGCAGACCGCGAATGGATCGCAGCGT
ATTCTGGGAAGTGTGTTTTATCGACCGGCCCCACGTGGAGACAGATTTAGGCATCCAAGCGAAATGCGTGAGGC
CAGCCCGACCTGCACTGAGGGAGGTAAGTCTTGAGGGAAAGTTCTGGATGCCTGGGTTTACCCAGATGGAGGTGT
CCAATAGGCAATTAGATACACAAGTCTCAGGCTCTCCCCAGGTGCTAGATTTCCAGCAGCACCACCATTATGTTG
ACTTCTCGTCCCGCCCCCTTGGGCTTCAGAAATAATGGTGATTGGCTTTCCCTTGGTGACGCCCCCTGCTTGGTGG
GCTGGCCTCGCCTTCGCCCCCGACCTGGCACGAGCCTCTCGAGCTTCCGGGCCGTCTGCTCGGTGATTGGCCGA
AACAGTGAGTGGACGGCCGCGGATTGGCTGTGCTCAGCGGCGGGCTGAGCAACTGGAGTGAGGGGAGCAGTTGGG
CCAAGATGGCGGCCGCCGAGGGACCGGTGGGCGACGGCGAGCTGTGGCAGACCTGGCTTCCTAACCCAGTCGTGT
TCTTGCGGCTCCGGGAGGGACTGAAAAACCAGAGTCCAACCGAAGCTGAGAAACCAGCTTCTTCGTCGTTGCCTT
CGTCGCCGCCGCCGAGTTGCTGACGAGAAACGTGGTCTTTGGCCTCGGCGGAGAGCTTTTCTGTGGGACGGAG
AAGACAGCTCCTTCTTAGTCGTTGCCTTCGGGGCCCCAGCGGCGGCGGCGAAGAGCCCGCCCTGTCCCAGTACC
AGATGGAGTTTCGCTCTTGTTGCCAGGCTGGAGTGCAATGGCGCCATCTCGGCTCACCGCAACCTCCACCTTCC
AGTTTCAAGCGATTCTTCTGCCTCAGCCCCCCCCGCGAGTAGCTGGGATTACAGAGATTGCTTTGCATAAATCCA
CCCCTGTTTGAAATCTATCAAGTCTTGTTAAGCCCAACACAACATCATGTAGCACTTATAGGAATAAAAGGACTT
ATGGTATTAGAATTACCTAAAAGATGGGGGAAGA

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FIGURE 4678

GAGCAGTTGGGCCAAGATGCGCGCCGCCGAGGGACCGGTGGGCGACGGCGAGCTGTGGCAGACCTGGCTTCCTAA
CCACGTCGTGTTCTTGCGGCTCCGGGAGGGACTGAAAAACCAGAGTCCAACCGAAGCTGAGAAAACCAGCTTCTTC
GTCGTTGCCTTCGTGCGCCGCCCGCAGTTGCTGACGAGAAACGTGGTCTTTGGCCTCGGCGGAGAGCTTTTCCT
GTGGGACGGAGAAGACAGCTCCTTCTTAGTCGTTGCGCTTCGGGGCCCCAGCGGCGGGCGGAAGAGCCCCGCCCT
GTCCAGTACCAGAGATTGCTTTGCATAAAATCCACCCCTGTTTGAAATCTATCAAGTCTTGTTAAGCCCAACACA
ACATCATGTAGCACTTATAGGAATAAAAGGACTTATGGTATTAGAATTACCTAAAAGATGGGGGAAGAATTCTGA
ATTTGAAGGTGGAATAACAGTGAATTGTAGTACCACCTCCAGTTGCGGAGAGATTTTTCACCAGTTCCACCTC
TCTGACTCTAAAGCATGCTGCATGGTATCCAAGTGAAATCCTGGATCCCCACGTAGTGCTGTTAACATCAGACAA
CGTAATCAGAATTTACTCACTACGTGAGCCGCAGACACCCACTAACGTGATAATACTTTTCAGAAGCCGAAGAGGA
AAGTCTAGTACTCAATAAAGGAAGGGCGTATACCGCATCTCTAGGAGAGACAGCAGTTGCATTTGACTTTGGGCC
ATTGGCAGCAGTCCCAAAGACTCTATTTGGACAAAACGGCAAAGATGAAGTAGTGGCATACCCACTGTACATCTT
ATATGAAAATGGAGAGACTTTCTTGACATACATCAGTCTGTTACACAGCCCTGGAAATATTGGAAAGCTGTTGGG
TCCATTGCCCATGCATCCTGCGGCTGAAGATAACTATGGTTATGATGCGTGTGCTGTACTCTGCTTACCCTGTGT
CCCCAATATCTTAGTGATCGCTACTGAATCAGGAATGCTGTATCACTGTGTGCTGTAGTAAGGGGAAGAAGA
TGACCACACGTGAGAAAAGTCTGGGATTCCAGGATTGACCTCATTCTCTGTATGTGTTTGAATGTGTTGA
GTTGGAGCTTGCTTTGAAACTGGCATCTGGAGAGSATGACCCTTTTGATTCTGACTTTTCTGTCCAGTCAA
TCATAGAGATCCCAAGTGTCTTCAAGATATCACTGTACTCATGAAGCTGGTGTACATAGTGTGGGCTAACTTG
GATTCATAAACTTCACAAATTTCTTGATCAGATGAAGAAGATAAGGATAGTTTACAGGAACCTCTACAGAACA
GAAATGCTTTGTTGAACACATCCTTTGTACGAAGCCATTGCCCTGCAGGCAGCCAGCTCCAATTCGAGGATTTG
GATTGTACCTGACATTCTGGGACCCACGATGATCTGCATCACCAGTACCTATGAATGCCTCATATGGCCGTTATT
AAGTACAGTCCATCCAGCGTCTCCTCCCCTGCTTTGTACTCGAGAAGATGTTGAAGTGGCAGAGTCTCCCCCTCCG
TGTTCTGGCTGAAACCCAGATTCTTTGAAAAGCATATTAGAAGCATTTTGCAACGTAGTGTTGCCAATCCAGC
ATTTTTGAAAGCTTCTGAAAAGGACATAGCCCCCTCTCCTGAAGAATGCCTTCAGCTCCTCAGCAGAGCCACCCA
GGTGTTCAGAGAGCAGTACATTCTCAAACAGGACTTGGCAAAGGAGGAGATTGAGCGGAGGGTCAAATTATTATG
TGACCAAAAAAAGAAACAAGTAGAAGATCTCAGTTATTGTGCGAGAAGAGAGGAAAAGTCTGCGGGAAATGGCTGA
GCGTTTAGCTGACAAATATGAGGAAGCTAAAGAAAAACAAGAGGATATCATGAACAGGATGAAAAAACTACTTCA
CAGTTTTCACTCTGAGCTCCAGTTCTCTCTGATAGTGAGCGAGACATGAAGAAAGAATTACAGCTGATACCTGA
TCAACTTCGACATTTGGGCAATGCCATCAAACAGGTTACTATGAAAAAGGATTATCAACAGCAAAAGATGGAGAA
GGTGTGAGTCTTCCAAAACCCACCATTATTCTCAGTGCCTACCAGCGAAAGTGCATTGAGTCCATCCTGAAAGA
GGAGGGTGAACATATAAGGGAAATGGTGAAGCAAATCAATGATATCCGCAATCATGTAAACTTCTGACACCACCA
GGAGCTGACTCACACCTGAACGAAACACCATTGAAGGCTTAAACCCATATTGTAAAACAGGTAGATTATCTAAT
TTATAAAAAGGTGTTTTGATG

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FIGURE 4679

MAAAEGPVGDELWQTLPNHVFLRLREGLKNQSPTEAEKPASSSLPSSPPPQLLTRNVVFGLGGEFLWDGED
SSFLVVRLRGPSGGGEEPALSQYQRLLCINPPLFEIYQVLLSPTQHHVALIGIKGLMVLELPKRWGKNSEFEGGK
STVNCSTTPVAERFFTSSTSLTLKHAAYPSEILDPHVLLTSDNVIRIYSLREPQTPTNVIILSEAEESLVLN
KGRAYTASLGETAVAFDFGPLAAVPKTLFGQNGKDEVVAYPLYILYENGETFLTYISLLHSPGNIGKLLGPLPMH
PAAEDNYGYDACAVLCCLPCVPNILVIATESGMLYHCVVLEGEEDDHTSEKSWDSRIDLIPSLYVFECVELELAL
KLASGEDDPFDSDFSCPVKLHRDPKCPSRYHCTHEAGVHSVGLTWIHKLHKFLGSDEEDKDSLQELSTEQKCFVE
HILCTKPLPCRQPAPIRGFWIVPDILGPTMICITSTYECLIWPLLSTVHPASPPLLCTREDVEVAESPLRVLAET
PDSFEKHRSILQRSVANPAFLKASEKDIAPPPEECLQLLSRATQVFREQYILKQDLAKEEIQRRVKLLCDQKKK
QLEDLSYCREERKSLREMAERLADKYEEAKEKQEDIMNRMKLLHSFHSSELPVLSDSERDMKKELQLIPDQLRHL
GNAIKQVTMKKDYQQQKMEKVLSPKPTIILSAYQRKCIQSILKEEGEHIREMVKQINDIRNHVNF

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FIGURE 4680A

GGTCAGCGGAGGGTTTGCTCCGTCTCTTGGTGAACCTGAACAGAGGCAGAGGCAAAAGCAAAACATTTCTGCGCC
AGGAGATGAGGGGCGGTAGAGCXCTGGXAATGGAGATGTCCTTGACGCCTGGGCAGAGGCTGCAGCTGCAGGAC
CCTGTGGCCACTGGAGATAAGTAATGGTGCCXATTTGAACACCTACTGGAAACGGGGCAGGAACAGTGAGTGACC
CCAGGCGAGCACAGGCAGGTGCCAGGAGCCAGGATGCAAGGATGACGCCTCCGGAGGCCCTGGCCTCACTCCCAC
CTGGGCGCTAGGAGCCATCCCGGGGCTCCAGCCAGGAGCCCTGCTGCCAGGGGCAXTGGGCAAAACCTTTCTTCC
GACTCCAGAAGTTTCTCCGCCGAACACAGTTCTGCTGTTXCTTCTCAXCGGCTGCCTACCTGATGACCGGCAG
CCTGCTGCTGCTGCAGCGGGTCCGCGTXGGCTCTCCACAGGGCCCCCGGGCACCCGGCCCCCTGCAGACCTTGC
CAGTGGCCGCGCTGGGCGCTGGGCGTGGGCTTGCTGGACAGCAGAGCCCTGCACGACCCCTCGAGTCAGCCAGAGC
TGCTGCTGGGTGTGGACATGCTGCAGAGCCCCCTGACCCGGCXCCCCGGCCCCGGCCCCCGCTGGCTCCGGAGCCGC
AACTCGGAGCTGCGTCAGTTGCGTCGCCGCTGGTTCCACCACTTCATGAGTGACTCCCAGGGACCGCCCGCCCTG
GGCCCCGAGGCTGCCAGGCCCCGCCATCCACAGCCGAGGCACCTACATTGGATGCTTCAGTGACGATGGCCACGAG
AGGACTCTGAAAGGAGCTGTGTTTTATGACTTGAGAAAGATGACTGTCTCCCACTGCCAGGATGCGTGTGCTGAG
CGGTCTATGTCTACGCCGGCTTGAGAGCCGGGGCGGAGTGTTACTGCGGGAACCGGCTGCCAGCGGTGAGCGTG
GGGCTGGAAGAGTGTAACCATGAGTGCAAAGGCGAGAAGGGCTCTGTGTGCGGGGCTGTGGACCGGCTCTCCGTG
TACCGTGTGGACGAGCTGCAGCCGGGCTCCAGGAAGCGGCGGACCGCCACCTACCGCGGATGCTTCCGACTGCCA
GAGAACATCACACATGCCCTTCCCCAGCTCCCTGATACAGGCCAATGTGACCGTGGGGACTTGCTCGGGCTTTTGT
TCCCAGAAAGAGTTCCCCCTTGCCATTTCTCAGGGGCTGGGAATGCTACTGTGCTTACCCTACCCCCGGTTCAAC
CTGCGGGATGCCATGGACAGCTCAGTATGTGGCCAGGACCCTGAGGCACAGAGGCTGGCAGAATACTGTGAGGTC
TACCAGACACCTGTGCAAGACACTCGTTGTACAGACAGGAGGTTCTGCCTAACAAATCCAAAGTGTTTGTGGCT
TTGTCAAGCTTCCAGGAGCCGGGAACACATGGGCACGGCACCTCATTGAGCATGCCACTGGCTTCTATACAGGG
AGCTACTACTTTGATGGAACCCCTCTACAACAAAGGGTTCAAGGGCGAAAAGGACCCTGGCGGAGCCGACGCACC
ATCTGTGTCAAAACCCACGAGAGTGGCAGGAGGGAGATTGAGATGTTTGATTAGCCATCCTGCTAATCCGGAAC
CCATACAGGTCCCTGGTGGCAGAATTCAACAGAAAATGTGCCGGGCACCTGGGATATGCAGCTGACCGCAACTGG
AAGAGCAAAGAGTGGCCGGACTTTGTCAACAGCTACGCCTCGTGGTGGTCTCGCACGTCCTGGACTGGCTCAAG
TACGGGAAGCGGCTGCTGGTGGTGCCTACGAGGAGCTGCGGCGCAGCCTGGTGCCACGTTACGGGAGATGGTG
GCCTTCTCAACGTGTCTGTGAGCGAGGAGCGGCTGCTCTGCGTGGAGAACAACAAGGAGGGCAGCTTCCGGCGG
CGCGGCCGGCGCTCCACGACCCCTGAGCCCTTACCCCGGAGATGAAAGACTTGATCAATGGCTACATCCGGACG
GTGGACCAAGCCCTGCGTGACCACAACCTGGACGGGGCTGCCAGGGAGTATGTGCCAGATGATAGGCCTGGCCC
ACGCCGCCGCCCCGCTGAGTGACGCAATCGCACACGCGGGCTGCGCTCCCCACTCTGATGCTCAGGCCCGTGGC
CTCACTGGGACGAACGGTGGGTGGGGGGCTCACCTGGTGTGCTGCCCTCCCGCACAAGGAGACCTGGACACAACAGA
CACACATACAAGGCGAACACAAATGGACACACATACCTGGCCACGAACCCACACCTCCTCAGACACTCAGACAC
CACTCCAGGCTCATAGCCCCGTCTTGATGCAGAGAAGCCACCCACGTGGGGTGTGCCAGGCACCCCCAGATACAA
ATGCAGCCACGCACAGACGTAACACACAGGTGCCAGGCCGTGTGCTCCTGGAGGCTGGCTGGCTGTCTCTCAC
ACAGATACAGTGCCTCCCTGGGATCCGGGAGGCCCTGGGCTTCTGTGTGTAGCCCTGGCATAGACTTGCTCG
TCAGGGTGTTCGACTCTGGGATGCTGGGCCGGGCAGACATTTATGCTCTGAGCAGCAAGGACCATTTGGGATGGAG
GTGGGCACAAAGACTGCTGCTTCCAGGGTGTGCGGCCCTGGCCGTGTGTCTGACATCCCATAAATGTGTGTGTGG
TGTGACTACGGGCACCACAAACTCCGCAGCCTTGCCCTCTCTTTTCTCTGTGGCTGGGCTGGCTGCACCATGGGCA
GGGTTGAGGACTGCCCCCACCCTCCGCCCCAAGCCAATGCAGACACTGACCTCAAGACCAGCCACACCAAGTCTGTG
CACTGCCCACCACCCCTTCAACCCCTCTACACCATGCTCCGGGGCTGGGGCTCCTTGCCCTGGCTTCTTCTCT
CCAGCTATCCTCAGGGAAGCTGGAGATTCAAGTCATGCCCCAGAAGCAAGGTGTAAGCATGGGGGCGTGGGGAAG
AGGGCAGGAGCTGAAGTTCCAGGGGAGCCAGGACCCCTGGGGACCTGTACACTAGCAGGATGGGTCTTGGGAGT
TGGCATGGGGAGATTGTAAGGGCTGTATCTCCGCGATTACTGGTACTGGTGTCTCACCCATAGGGGGCCCTGTTCT
CTCTGGGGTCCCACACTGGGGTCATGAGAGCTAGTTAGTACTCAGCCTGACCCCTAGGTCTGGTCTGCCAGCCT
GGGATGGGGGTCAATGTATGCTACACATCTTGGGCTCACAAGTGAGGCTGTGGAGGCCAGGAGGTTCAAGTATGG
AGGGTAGGAGTGCAACCCAGGAGCAACGCTCAAGGTGGCCGAGATGCAGGGAGGATTGTGGCGATCCGGTTGCAC
ACTGGCCTCTGTGGAGGTGAGGGAGGTGGGAAGGTGGGTGGGCCTGAACTCAGGCAGCCCTTCAGTGGCTTCTTC
AGGCCTAGGATAACCCCTGGCCAGGCCCCATGGTCCCTGCTCTGGGTGAGCTGTGAGGGAGACCTCCCTTCAGCCTG
AGCCAAGCTGCATTGGGAGGAGAAGGCAGGGTGAGGGATCTGGGAGAGCAGGACGTTGAGATATCCTGACCCCT

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FIGURE 4680B

GCTTCCTAGCCTGATGATGGGGAACCCAGAGCCACCCGCTATGAGCACAGGCCGGGGGTGGAAGGCCCAGTAGAG
CTGCCCTTCCCCAGATGGAAGCTTCCTCCAACCTTCAGTTTGGCCAGTGGGTGGGTTTGGGCATCTGTGCCCCTG
GTGGCCTCCAAATCCTTCCTGGGATTCCCCCAAACCCACACTGATGCGAAGCTGTTCTTGACCCCTCCCATAGCAT
CAACTCAGTTCAGCTCAAAGCTAGAAACACCAAGGTCTTTGAAAATGTTTATTGGCTCAGGATAGCTTCGGGCATC
CAATCTGCGAAGGCCCCCTGATGGAGCTATTTCTTCCTAGTATCAGGAGCAATTGAGACCCCTCAGGAGTTTCCAC
ACTGCTGTGGACGGGATAGCCAGGGCAGACCTGCATCCAGAGCAAGCCTAGATCCTTGAAAAGCAATGTCAGGCG
TGGCAGTGGGGAAGCCATGGAGGCTGGGAAGGGCAAAGTGTGGAGAGAGGAGTGACCGGGACTGGAGCCAGGGTC
TGGGGAGAGCAACAGCACAGGCTTTTCCTGGTAGTTGGATTGGTACATTCACTGCTGCCAGGTACCCAGAGATG
TCATCTCTCTCCAGGTAGAGCATCACCAGCTCCTGTGGCCTTGTAGATGACTCTGTACCTCAGTGAAGAGTGCAG
GCAAGTAGAGTGATGGGGTCAGTGTCCATCCAGTTTACGCTGAGTCAGTCCATACAGCAAGACACCTGGCATTG
GCAGGTACTCCTGGATGTTGATGAGCAAGGAAGAGCAACGGCCCTGTCAGCTGGCAGTGGTCTCACAGCCTTCA
TCCCAGGTCTGCCTACGTGGGAGATCTCATCAGAAACAGGAACGGGGATCTGTCTGTGCTTGCAAGAAAGTCCAT
TTGTTTTTCTCCAAGTTAGGTCTCATCTACAGCTCTTAGCTTCTCAGTAAAGAGGATACTCTCCAACCAGCCAA
GGAATAAAAGCTGATCTGTATGTAGGGCAGAAGTGTGGCAAATGCATCAGGAACCGGTTAGAACAGAACAGAGAA
ACCCTGACTGTCTACAGATTCCAACTTTAATAGCAAGCCTGTGGAGTTACACAAACCTGTGTTAAAACATGTAAT
TTTTATGGATTTCACTCTCCCGTTGTGGATCAATTTGGAAAAACCAAATATGTAATTTAAAAAACTAAAAACACA
TCCTGGTAGTCCCAGTGATGTGTAAATGAGAGAGAAGAATAGACAGGCTTCCAAACCCCTGGGAAGAAAGCTGCTT
AATTATGTGAACATCTTATAATGAAGTCTCTTGCAGCTAAAATTAGATTTTGAGTGCATGAATCTGTGATAATGT
TTGCATATCAGAATGCATTCTCCCCTTAAAAGTAGCAGTAGCCACTTGGTTCTTAGGGGGCCCCAAGAGGAGAGG
AGAAGTGCTGAGGTTGATGTTACGACTGCAAGAATTCTTGGGACACAGGTTTGTCTTGCTGACTTGCTCGGAA
ACCCATTGGAGGTATCTGAAATGTGATGACTCCAAAGGGGTTCAATTCCTATAGGGAGAAATTGATTCGCTCTGA
CTTCCTATTTATCACCCTCAATATTGGGTGAGTTGGTCTGAACAAGGTGGGGATAAAGTAGAGTGGAATAATG
TAGAGTCGTGAGACTGAAAGGCCAGGTTGTAGTCCCAGCTCTTATCTGCCATCTTGGACAAAGCTTTTCCCCTCT
CCAGTCTCAGTTTCCCATCCATAAAATGGGGGAAGTGGTAGGTCTTGCTGATTGCATCCACATTCATTCCCTCCAT
TTCCTTTCCCAGCAACCCCCCATTTCTGTTTGGGAATTCATATGATCTGCCAGAGCCTCTCCAGGGGTGGAATAC
ATGTCCTGGACTAAGCCAATGACACCTTCCATCTTCCAGCTATGGTGAAGTGGGTAGGTATGATCTTGTGAGTT
AAGACAATGAAGCCAGAGGGAATTTCAAGACTTATGGGAATGCTGGGTAGAAGCTGTTTTAATTCCCCTGTTGAA
TGTGAAAAAGGTAGTAGTATTCTGGGTCTTTATGATGACCACCTTGGGCCTTGGGATCATGACCAGGAATCACG
TGAAGCTGACACCACTGAAGGGAGAGTTGAGAGGCAGAAAGAGATCAAGTCCTTGGTGAAATTGTTTAAGTACAG
GATCAAGCCTTGCTTGAGATTGGCCTTACCTCTGGACTTTTTTTGTTATATGAGCTAATAAAATCTGTTTATTGT
TT

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FIGURE 4681

MAKPFERLQKFLRRTQFLLFFLTAAYLMTGSLLLLQVRVVALPQGPRAPGFLQTLFVAAVALGVGLLDSRALHDP
RVSPPELLLGVDMLQSPLTRPRPGPRWLRSRNSLRQLRRRWFHHFMSDSQGPPALGPEAARPAIHSRGTYIGCFS
DDGHERTLKGAVFYDLRKMTVSHCQDACAERSYVYAGLEAGAECYCGNRLPAVSVGLEECNHECKGEKGSVCGAV
DRLSVYRVDELQPGSRKRRTATYRGCFRLPENITHAFPSLIQANVTVGTCSGFCSQKEFPLAILRGWECYCAYP
TPRFNLRDAMDSSVCGQDPEAQRLAEYCEVYQTPVQDTRCTDRRFLPNKSKVFVALSSFPAGAGNTWARHLIEHAT
GFYTGSIYFDGTLYNKGFKGEKDHWSRRTICVKTHESGRREIEMFDSAILLIRNPYRSLVAEFNRKCAGHLGYA
ADRNWKSKEWPDFVNSYASWWSSHVLDWLKYGKRLLVVHYEELRRSLVPTLREMVAFINVSVSEERLLCVENNKE
GSFRRRGRRSHDPEPFTPEMKDLINGYIRTVDQALRDHNWTGLPREYVPR

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FIGURE 4682

CTTAGTGGTGTCTGGGGTCTAGTGGACAGAGAAGACTCTTGGCCAGGCAGATGGCTTCTCGGTGGCAGAACATGGG
GACCTCCGTGCGCCGGAGATCTCTCCAGCACCAGGAGCAGCTGGAGGACAGCAAGGAGCTGCAGCCTGTGGTCAG
CCATCAGGAGACCTCTGTAGGGGGCCCTGGGGTCCCTGTGCAGACAGTTCCAAAGGAGGCTGCCCCCTGAGAACCGT
CAACCTCAACCTCCGCGCAGGGCCCTCCTGGAAACGCCTGGAAACCCCAGAGCCAGGTCAGCAGGGCCCTCCAGGC
TGCAGCTCGCTCAGCTAAGAGTGCTTTGGGTGCCGTGTCCCAGAGAATCCAGGAGTCTTGCCAAAGTGGCACCAA
GTGGCTGGTGGAGACCCAGGTGAAGGCCAGGAGGCGGAAGAGAGGAGCACAGAAGGGCAGTGGATCCCCAACTCA
CAGCCTGAGCCAGAAGAGCACCCGGCTGTCTGGAGCCGCCCCCTGCCCCACTCAGCCGCAGACCCCTGGGAGAAGGA
GCATCACCGCCTCTCTGTCCGGATGGGCTCACATGCCACCCATTACGGCGATCAAGGCGGGAGGCTGCCTTCCG
GAGCCCCTACTCCTCAACAGAGCCCCCTCTGCTCTCCAGCGAGTCTGACAGTGACCTAGAGCCTGTGGGGGCGGG
AATTCAGCATCTCCAGAAGCTGTCCCAAGAGCTAGATGAAGCCATTATGGCGGAAGAGAGTGGTGACATCGTCTC
TCTCATTTCATGACTGAGGAAGTGCCCTGCAGGAAACAAGCCCTGTCTGACCGCCAAGGCTTCATACTCAAGGATGT
CTATGCTTCCCCGTGTGCTTCCCTGGAAAAAACCCCGGGAGTCGTACAGTACCCCTGGGCCACTGCTAACAAGCAC
CTAACAAGGGGGCCAGAGCCCCCTGCTCCAGCCACATCTGGACCCATCAGTGACTGCCTGCCATAGCCTGAGAGT
GTCTTGGGGAGACCTTGCAGAGGGGGAGAATTGTTCCCTTCTGCTTTCCCTAGGGGACTCTTGAGCTTAGAACTCA
TCGTACACTTGACCTTGAGCCTTCTATTTGCCTCATCTATAACATGAAGTGCTAGCATCAGATATTTGAGAGCTC
TTAGCTCTGTACCCGGGTGCCTGGTTTTTTGGGGAGTCATCCGCAGAGTCACTCACCCACTGTGTTTTCTGGTGCCA
AGGCTCTTGAGGGCCCCACTCTCATCCCTCCTTTCCCTACCAGGGACTCGGAGGAAGGCATAGGAGATATTTCCA
GGCTTACGACCCTGGGCTCACGGGTACCTATTTATATGCTCAGTGCAGAGCACTGTGGATGTGCCAGGAGGGGTA
GCCCTGTTCAAGAGCAATTTCTGCCCTTTGTAAATTATTTAAGAAACCTGCTTTGTCATTTTATTAGAAAGAAAC
CAGCATGTGACTTTCTAGATAACACTGCTTTCTCATAATAAAGACTATTTGCATTTG

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FIGURE 4683

MASRWQNMGTSVRRRSLQHQELEDSEKELQPVVSHQETSVGALGSLCRQFQRRLEPLRTVNLNLRAGPSWKRLETP
EPGQQGLQAAAARSAKSALGAVSQRIQESCQSGTKWLVTQVKARRRKRGAKGSGSPTHSLSQKSTRLSGAAPAH
SAADPWEKEHHRLSVRMGSHAHPLRRSRREAAFRSPYSSTEPLCSPSESDSDLEPVGAGIQHLQKLSQELDEAIM
AEESGDIVSLIHD

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FIGURE 4684

ATGGATGCCGCTCTGCTCCTGAACGTGGAAGGGGTCAAGAAAACCATTCTGCACGGGGGCACGGGCGAGCTCCCA
AACTTCATCACCGGATCCCGAGTGATCTTTCATTTCCGCACCATGAAATGTGATGAGGAGCGGACAGTCATTGAC
GACAGTCGGCAGGTGGGCCAGCCCATGCACATCATCATCGGAAACATGTTCAAGCTCGAGGTCTGGGAGATCCTG
CTTACCTCCATGCGGGTGCACGAGGTGGCCGAGTTCTGGTGCGACACCATCCACACGGGGGTCTACCCCATCCTA
TCCCGGAGCCTGAGGCAGATGGCCCAGGGCAAGGACCCACAGAGTGGCACGTGCACACGTGCGGGGTGGCCAAC
ATGTTGCGCTACCACACGCTGGGCTACGAGGACCTGGACGAGCTGCAGAAGGAGCCTCAGCCTCTGGTCTTTGTG
ATCGAGCTGCTGCAGGTTGATGCCCCGAGTGATTACCAGAGGGAGACCTGGAACCTGAGCAATCATGAGAAGATG
AAGGCGGTGCCCCGTCCTCCACGGAGAGGGAAATCGGCTCTTCAAGCTGGGCCGCTACGAGGAGGCCTCTTCCAAG
TACCAGGAGGCCATCATCTGCCTAAGGAACCTGCAGACCAAGGAGAAGCCATGGGAGGTGCAGTGGCTGAAGCTG
GAGAAGATGATCAATACTCTGATCCTCAACTACIGCCAGTGCCTGCTGAAGAAGGAGGAGTACTATGAGGTGCTG
GAGCACACCAGTGATATTTCTCCGGCACCACCCAGGCATCGTGAAGGCCTACTACGTGCGTGCCCGGGCTCACGCA
GAGGTGTGGAATGAGGCCGAGGCCAAGGCGGACCTCCAGAAAGTGCTGGAGCTGGAGCCGTCCATGCAGAAGGCG
GTGCGCAGGGAGCTGAGGCTGCTGGAGAACCGCATGGCGGAGAAGCAGGAGGAGGAGCGGCTGCGCTGCCGGAAC
ATGCTGAGCCAGGGTGCCACGCAGCCTCCCGCAGAGCCACCCACAGAGCCACCCGCACAGTCATCCACAGAGCCA
CCTGCAGAGCCACCCACAGCACCATCTGCAGAGCTGTCCGCAGGGCCCCCTGCAGAGCCAGCCACAGAGCCACCC
CCGTCCCCAGGGCACTCGCTGCAGCAGTGAAGCCCCCTGAGGCCACAGCCACCCAGGCAGGGAGCAAGTGGCCTG
GTCACCTCTGGTTCGATTGACCAGGATCGTGGTGTCACTTTTTAAAATTTAAAATTAATTTTTGAAATCAAAGTC
AGACACACCCATGGTAAAAAAAAAAAAAAAAACAATCCAAGGGTACAGAAGAGCTTATGAATAAAAGTAGTTTT
CTCCTCTACCCCTCTCATTCCTTCCGTGCCATGGTTTTAATTGACCCTGTTTTTAATCTTCTGGTAGTTTTCTC
TATTTCCAAGTAATCTGTTTAAATCAGTTTCTAGATTTTACCCCATGTCAATGACAAATGAGGATTTGATGCTCT
GATCCTTTCTCATGCCTGATACCCCTCCCTGTCTCCCCATTTTGGATAGTTACATTTGGGGGTCATCTCGGTGAT
TTTTGTAACTTTACGCAGGACACTTAGAGCTCTCTAGAATCCCACTGACTTTAGTGGGTCTTGATGTAGGGTGGG
CAAGCCCCGACACTGGAGCTTAGCCTGAGAGGGTTCTTG

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FIGURE 4685

MDAALLNVEGVKKTILHGGTGELPNFITGSRVIFHFRTMKCDEERTVIDDSRQVGQPMHIIIGNMFKLEVWEIL
LTSMRVHEVAEFWCDTIHTGVYPILSRSLRQMAQGKDPTEWHVHTCGLANMFAYHTLGYEDLDELQKEPQPLV FV
IELLQVDAPSDYQRETWNLSNHEKMKAVPVLHGEGNRLFKLGRYEEASSKYQEAIICLRNLQTKKPWEVQWLKL
EKMINTLILNYCQCLLKKEEYEVLEHTSDILRHHPGIVKAYYVRARAHAEVWNEAEAKADLQKVLELEPSMQKA
VRRELRLLENRMAEKQEEERLRCRNMLSQGATQPPAEPPTTEPPAQSSTEPPAEPPTAPSAELSAGPPAEPATEPP
PSPGHSLQH

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FIGURE 4686

GGCCAGCGCGGCCGGXGCCCCCTXCGXCCTXCCCACCCAGGGCGCTGAGCACGCACGXCCGCCGGCCTGGTGTTT
CGGXCGGGGGCCCCGGGACCAGCCGCCGCCCTTCTCCAGGCGCTCCTACTCTCTGGGCATCTGCAGTCCGAGCGGAA
GGGGCGGGGAAXCGTCGGCGACGCCGAGGGAGCAAAGCCCACGATCGGCTTCCCGGGGCAGCGGACGGCTGCCTTC
CTCCCCGGCGCAAACGCACCCGCCAGGAGGGGGCGGGCTCGGCGGGTTCGGGGGGCGGGGCCGGGTCCGAGCTCGG
GCCCXGCCTCCGCCTCCGCCAGCTCCTGTGAGCTGCCGAGTGCTAGGCACCCGGGCTCTTCTGGGGGCTCCAGAA
CTAAGCCACCCAGACACCATCATCCCGAAAACCCAGCCCTTCTCCCATGGCAGGCTACTTGGCCCCCAAAGGX
TACGCCCCCTTCGCCCCACCTCCCTACCTGTCAACCCCTGGGTACCCGGAGCCGGCGCTACATCCTGGGXCCCCG
GCAGGCGCCAGTGCCCGCCAGGTACCTGCCCCAGXCTCCCGGCTTCGCCCTCTTCCCCTCGCCTGGCCCCGTGG
CCTTGGGGTCTGCTGCCCCCTTCTTGCCACTGCCAGGGGTGCCTTCTGGCCTCGAATTCTGGTGCAGATTGATC
AGATTTTGAATTCACCAGAAGGCTGAGCGAGTGGAATGGAAGTACAGGCTCCACCAGGCACCACCATTTGGCCAC
GTGCTACAGACCTGGCATCCCTTCTTCCCCAAGTTCTCCATCCAGGATGCCGATCGCCAGACAGTCTTGCAGTG
GTGGGGCCCTGCTGGACCTGTGGCTGTGGCACAGACACCAACTTTGAGGTGAAGACXTCGGGATGAATCCCGCAG
TGTGGGCCGCATCAGCAAGCAGTGGGGGGGCCTGGTCCGAGAAGCCCTCACAGATGCAGATGACTTTGGCCTACA
GTTCCCGCTGGACCXXXTGGAXTXGXXXTGXAGGGTGAAGGCTGTGCTGCTGGGAGCCACATTCTCATTGACTA
CATGTTCTTTGAGAAGCGAGGAGGCGCTGGGGCCCTCTGCCATCACCAGTTAGAGGCCACCATGGTGTGAGGAGAC
CATCACCTCGACCAGAACTCCAGATGGTCACCTGCCCTGGCCCCCTCCTCTGGGCAGCCCCCTTCTCCTCCATGTACA
CTGCAGGGGACAGXAAGGGGGGCCCATCCCTACCCTACTCCCTGGCCGCCTGXCCCCCTGTGGTTCCCAAGGAGG
GGTATGTATGAGAGCCGCTCTCCTGTCTACCTXCCCACCACTGTCCCAGCAGTCCCTCGGCACACAGGCATATCAG
CTTTCACACTTTCCCCATGCACTCTCTCCCACCCCTTCCAGGGCCTCTGCTCCAAAGGAGGCCTCTGGAACCCA
GGACTCTGGGGTTTTTACAAGXAGGGCTGGGGTGTGGAAGGGCAAGCTGCACCAAAGACGGTGGATATAGCCACCG
CCCCCCCCGCGCTGCCTAGCATCTGCTTGGCCAATTAGTTAGCCTCAGACCATGGCACTTTGAGGGGGTCTCTA
CCTCCCCATCAACAGCTGCAGGGGGACCCAGTGCCAACTTCTCTCCAXCTAGGGCCCTGCCTTCAGCTGGTG
CTTGCTGCGATTCTGTGCCTTATGTAACTGCCCTTCTTCCCTTGCCCTXAGGAAAAAGGCTGCATCTTTATAT
GTTACATTATATAAACTTTGTAACTTTTTGGACATTG

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FIGURE 4687

CTAGTTTCTAAGGATCATGTCTGCGAGCCAGGATTCCCGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCCGA
AGGCGTCATCGAGAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCCTTCTCCG
TGGCATCTACGCCTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCGAGCCATTCTACCTTGTATCAAGGGTTA
TGATGTGATTGCTCAAGCCCAATCTGGGACTGGGAAAACGGCCACATTTGCCATATCGATTCTGCAGCAGATTGA
ATTAGATCTAAAAGCCACCCAGGCCTTGGTCCTAGCACCCACTCGAGAATTGGCTCAGCAGATACAGAAGGTGGT
CATGGCACTAGGAGACTACATGGGCGCCTCCTGTACGCCTGTATCGGGGGCACCAACGTGCGTGCTGAGGTGCA
GAAACTGCAGATGGAAGCTCCCCACATCATCGTGGGTACCCCTGGCCGTGTGTTTGATATGCTTAACCGGAGATA
CCTGTCCCCCAAATACATCAAGATGTTTGTACTGGATGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCA
GATCTATGACATATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTCAGCCACAATGCCTTCTGATGT
GCTTGAGGTGACCAAGAAGTTCATGAGGGACCCCATTCGGATTCTTGTCAAGAAGGAAGAGTTGACCCTGGAGGG
TATCCGCCAGTTCTACATCAACGTGGAACGAGAGGAGTGGAAGCTGGACACACTATGTGACTTGTATGAAACCCT
GACCATCACCCAGGCAGTCATCTTCATCAACACCCGGAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCTCG
AGATTTCACTGTATCCGCCATGCATGGAGATATGGACCAAAAGGAACGAGACGTGATTATGAGGGAGTTTCGTTT
TGGCTCTAGCAGAGTTTTGATTACCACTGACCTGCTGGCCAGAGGCATTGATGTGCAGCAGGTTTCTTTAGTCAT
CAACTATGACCTTCCCACCAACAGGGAAAACATATCCACAGAATCGGTCGAGGTGGACGGTTTGGCCGTAAAGG
TGTGGCTATTAACATGGTGACAGAAGAAGACAAGAGGACTCTTCGAGACATTGAGACCTTCTACAACACCTCCAT
TGAGGAAATGCCCCCTCAATGTTGCTGACCTCATCTGAGGGGCTGTCCTGCCACCCAGCCCCAGCCAGGGCTCAAT
CTCTGGGGGCTGAGGAGCAGCAGGAGGGGGGAGGGAAGGGAGCCAAGGGATGGACATCTTGTCATTTTTTTTTCTT
TGAATAAATGTCACTTTTTGAGGCAAAAGAAGG

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FIGURE 4688

MSASQDSRSRDNGPDGMEPEGVIESN^wNEIVDSFDDMNLSESLLRGIYAYGF EKPSAIQQRAILPCIKGYDVIAQ
AQSGTGKTATFAISILQQIELDLKATQALVLAPTRELAQQIQKVVMALGDYMGASCHACIGGTNVRAEVQKLQME
APHIIVGTPGRVFDMLNRRYLSPKYIKMFVLDEADEMLSRGFKDQIYDIFQKLNSNTQVVLLSATMPSDVLEVTK
KFMRDPIRILVKKEELTLEGIRQFYINVEREEWKLDTLCDLYETLTITQAVIFINTRRKVDWLTEKM HARDFTVS
AMHGDM^dDQK^rERDVIMREFRSGSSRVLITTDLLARGIDVQQVSLVINYDLPTNRENYIHRIGRGGRFGRKGVAINM
VTEEDKRTL^rLDIETFYNTSIEEMPLNVADLI

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FIGURE 4689

GAGCTAGCTTTGCAATATGCGCGCCGAGGCGGACGGACCGCTTAAACGGCTGCTCGTGCCGATTCTTTTACCTGA
GAAATGCTACGACCAACTTTTCGTTTCAGTGGGACTTGCTTCACGTCCCCTGCCTCAAGATTCTCCTCAGCAAAGG
CCTGGGGCTGGGCATTGTGGCTGGCTCACTTCTAGTAAAGCTGCCCCAGGTGTTTAAAATCCGGGGAGCCAAGAG
TGCTGAAGGGTTGAGTCTCCAGTCTGTAATGCTGGAGCTAGTGGCATTGACTGGGACCATGGTCTACAGCATCAC
TAACAACCTCCCATTCAGCTCTTGGGGTGAAGCCTTATTCCTGATGCTCCAGACGATCACCATCTGCTTCCTGGT
CATGCACTACAGAGGACAGACTGTGAAAGGTGTGCTTTTCCTCGCTTGCTACGGCCTGGTCCCTGCTGGTGCTTCT
CTCACCTCTGACGCCCTTGACTGTAGTCACCCTGCTCCAGGCCTCCAATGTGCCTGCTGTGGTGGTGGGGAGGCT
TCTCCAGGCAGCCACCAACTACCACAACGGGTACACAGGCCAGCTCTCAGCCATCACAGTCTTCCTGCTGTTTGG
GGGCTCCCTGGCCCGAATCTTCACTTCCATTTCAGGAAACCGGAGATCCCCTGATGGCTGGGACCTTTGTGGTCTC
CTCTCTCTGCAACGGCCTCATCGCCGCCAGCTGCTCTTCTACTGGAATGCAAAGCCTCCCCACAAGCAGAAAAA
GGCGCAGTAGAGCCAGCTACTGGAGTCATTCCGTTTCCACTCATTACCCAACCTCAGGGTTCTCCCCATCTGAG
CCAGCCTGCTGGTGTGACTTACTCATCCTCCATTCTCTGCACTTGACAGACTTTCTGAGCCAGGGTTTTCTTTTA
GTGGAAACAAATGGTTGATGGATCCAGATCCTTAGAAAAGGAGAGGATGGGGGTAGAGTCTCCCAAGCCAAAATT
TTGACATTTGAGTGCTTTTCGTAAGCCCTGTACATGTACTATTAATTTCAGTCATTTCAGCCAAGCCTCCTCCTCTAG
CAGCAATTTCCAGCTGTTTAACTATCCTGGGCAAATGTTTTACCCTGTCCTCCAGCCTCCCTGCTTCCCTTCT
GGCCCTGGAAGACTGAGTCTGGACGGCAGAGTGGAGGGACTGGGAGGCTGTGGCTGCCTCCCTCCCTCAGCCCGG
CTGGGACTGTCTCCCGACCCAGTGCTGGGGTGGGGGAAGGGGGACGGAGAATGACTCAGGCAGGGCCCCAGGG
TGGGGTGAGGAGGTTCTGCTCTGGCAGGTCTAGGCGGAAGGGAGTGGAGATGGGGCTGGTTGCTGCTGCAGTGA
GGGGAACAGATGGGACAATAAAGACTGGAGACTCAGTTGAATAATGCAAAAAAAAAAAAAA

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FIGURE 4690

MAAEADGPLKRLLPILLPEKCYDQLFVQWDLHVPCLKILLSKGLGLGIVAGSLLVKLPQVFKIRGAKSAEGLS
LQSVMLELVALTGTMVYSITNNEPFSWGEALFLMLQTITICFLVMHYRGQTVKGVAFLACYGLVLLVLLSPLTP
LTVVTLLQASNVPVVVGRLLQAATNYHNGYTGQLSAITVFLFGGSLARIFTSIQETGDPLMAGTFVSSLCNG
LIAAQLLFYWNAKPPHKQKKAQ

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FIGURE 4691

TTAAGGAGGTGCAGTCTTATGGGAGGGACAGGGGCGGAGTCAGTCTTTAAAAGCTGTTCCCAGGTCTGGCCCGCC
TGCCACAAACGCTGAGCCCAGGTGGGAGAGGTCTGGCCTATCCGCGCCTGGCAGCTGTCGGAACCTCCGGAGACCA
CAAAGGGGTTTATGGTTTACCCCTCCACGGAAGGTCGGTCTGATCGCAGCTGCGGGTCGGGGAGAGGGACCGGG
GGTCCCCCAGTCAGTAGGCCTCAGAACACCTCTTCAGTGCCGGGGCACCAGACAGCGGATTTTGCATTTCGACTCT
CCCCAAAGTGTGCCGAACAGGTTGGAAGCAAAGGCTCCGGTTTAAAGCTCTGGGCTTGGGGATAAAATACACTTTT
TAAGGACCCAAGTTCCTCGGCAACGACTCCAGACTGGGAAGACCTTTCCATTTTCAGGATCGACGCTTCACGTTG
AGGGGAGGGCATTTCAGGACGCCCTCTTAAGGCTTCTCCAACCCATGCGCTACCAGGCTCCTCACAGGACCAGG
CCTGGAGCCTGGAGCCTCCGGCTGCCACGGCTGCTGCCTCCTCATCTTCGGGACCCAGGAGCGGGAGGGCGCTG
GGAGCCCCGCGGCCCCCGGGACGCTGCCCCTGGAAGGTGAAGCGGCCGATGAACGCGTTCATGGTGTGGAGCT
CCGCTCAGCGCCGCCAGATGGCGCAGCAGAACCCCAAGATGCACAACCTCCGAGATCTCCAAGCGCCTGGGCGCGC
AGTGGAAGCTGCTGGACGAGGACGAGAAGCGGCCCTTCGTGGAGGAGGCCAAGCGGCTCCGCGCCCGACACCTGC
GCGACTACCCCGACTACAAGTACCGGCCTCGGCGCAAGGCCAAGAGCTCGGGCGCCGGACCTTCCCGCTGCGGAC
AGGGAAGAGGCAACCTGGCCAGCGGCGGCCGCTCTGGGGGCCGGGTACGCGACCACCCAACCGAGCAGAGGCT
TTGGGTACAGACCCCCCAGCTACTCGACAGCCTACCTGCCTGGCAGCTATGGCTCTTCCCACTGCAAACCTGGAAG
CCCCCTCACCGTGCTCCCTCCCTCAGAGTGACCCTAGGCTCCAGGGGGAAGTCTGCCCACCTATACCCACTACC
TGCCCCCTGGCTCTCCCACTCCATAACAACCTCCCTTGCTGGTGCCCCCATGCCCTAACCCACCTCTTAACCCT
CATGGACGCAGACCTCACGGGACGGGCCTCATCCTCCTTTTTTAATCCAGCAGCATCCCCTACCCAGGCTGTCA
ACCCTTTCTCCTGTTGGACTACAGTTCAGAGGCAGCCTGCAGTCCTCCCATGATAGCCAGGGAGAGCCGCACAAC
ATACAATTATATTTTTGGTAGTATTAAACAGTTTTGTATTATTC

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FIGURE 4692

MALPGSSQDQAWSLEPPAATAAASSSSGPQEREGAGSPAAPGTLPLEKVKRPMNAFMVWSSAQRQMAQQONPKMH
NSEISKRLGAQWKLLDEDEKRPFVEEAKRLRARHLRDYPDYKYRPRRKAKSSGAGPSRCGQGRGNLASGGPLWGP
GYATTQPSRGFGYRPPSYSTAYLPGSYGSSHCKLEAPSPCSLPQSDPRLQGEILLPTYTHYLPPGSPTPYNPPLAG
APMPLTHL

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FIGURE 4693

ACTTGTTCATGGCGACTGTCCAGCTTTGTGCCAGGAGCCTCGCAGGGGTTGATGGGATTGGGGTTTTCCCTCCCA
TGTGCTCAAGACTGGCGCTAAAAGTTTTGAGCTTCTCAAAAGCTAGAGCCACCGTCCAGGGAGCAGGTAGCTGC
TGGGCTCCGGGGACACTTTGCGTTCCGGGCTGGGAGCGTGCTTTCCACGACGGTGACACGCTTCCCTGGATTGGCA
GCCAGACTGCCTTCCGGGTCACTGCCATGGAGGAGCCGCAGTCAGATCCTAGCGTCGAGCCCCCTCTGAGTCAGG
AAACATTTTTCAGACCTATGGAACTACTTCTGAAAACAACGTTCTGTCCCCCTTGCCGTCCCAAGCAATGGATG
ATTTGATGCTGTCCCCGGACGATATTGAACAATGGTTCACTGAAGACCCAGGTCCAGATGAAGCTCCCAGAATGC
CAGAGGCTGCTCCCCGCGTGGCCCCCTGCACCAGCAGCTCCTACACCGGCGGCCCTGCACCAGCCCCCTCCTGGC
CCCTGTTCATCTTCTGTCCCTTCCAGAAAACCTACCAGGGCAGCTACGGTTTTCCGTCTGGGCTTCTTGCAATTCTG
GGACAGCCAAGTCTGTGACTTGCACGTACTCCCCTGCCCTCAACAAGATGTTTTGCCAACTGGCCAAGACCTGCC
CTGTGCAGCTGTGGGTTGATTCCACACCCCGCCCGGCACCCGCGTCCGCGCCATGGCCATCTACAAGCAGTCAC
AGCACATGACGGAGGTTGTGAGGCGCTGCCCCCACCATGAGCGCTGCTCAGATAGCGATGGTCTGGCCCCCTCCTC
AGCATCTTATCCGAGTGGAAGGAAATTTGCGTGTGGAGTATTTGGATGACAGAAACACTTTTCGACATAGTGTGG
TGGTGGCCTATGAGCCGCTGAGGTTGGCTCTGACTGTACCACCATCCACTACAACCTACATGTGTAACAGTTCCT
GCATGGGCGGCATGAACCGGAGGCCCATCCTCACCATCATCACACTGGAAGACTCCAGTGGTAATCTACTGGGAC
GGAACAGCTTTGAGGTGCGTGTGTTGTGCTGTCTGGGAGAGACCGGCGCACAGAGGAAGAGAATCTCCGCAAGA
AAGGGGAGCCTCACCACGAGCTGCCCCAGGGAGCACTAAGCGAGCACTGCCCAACAACACCAGCTCCTCTCCCC
AGCCAAAGAAGAAACCACTGGATGGAGAATATTTACCCTTCAGATCCGTGGGCGTGAGCGCTTCGAGATGTTCC
GAGAGCTGAATGAGGCCTTGGAACCTCAAGGATGCCAGGCTGGGAAGGAGCCAGGGGGAGCAGGGCTCACTCCA
GCCACCTGAAGTCCAAAAGGGTCAGTCTACCTCCCGCCATAAAAACTCATGTTCAAGACAGAAGGGCTGACT
CAGACTGACATTCTCCACTTCTTGTCCCCACTGACAGCCTCCCACCCCATCTCTCCCTCCCTGCCATTTTGG
GTTTTGGGTCTTTGAACCCTTGCTTGCAATAGGTGTGCGTCAGAAGCACCCAGGACTTCCATTTGCTTTGTCCCG
GGGCTCCACTGAACAAGTTGGCCTGCACTGGTGTGTTTGTGTTGGGGAGGAGGATGGGGAGTAGGACATAACCAGCT
TAGATTTTAAGGTTTTTACTGTGAGGGATGTTTGGGAGATGTAAGAAATGTTCTTGAGTTAAGGGTTAGTTTAC
AATCAGCCACATTCTAGGTAGGGGCCACTTCACCGTACTAACCAGGGAAGCTGTCCCTCACTGTTGAATTTTCT
CTAACTTCAAGGCCCATATCTGTGAAATGCTGGCATTGTCACCTACCTCACAGAGTGCATTGTGAGGGTTAATGA
AATAATGTACATCTGGCCTTGAAACCACCTTTTATTACATGGGGTCTAGAACTTGACCCCTTGAGGGTGCTTGT
TCCCTCTCCCTGTTGGTTCGGTGGGTTGGTAGTTTCTACAGTTGGGCAGCTGGTTAGGTAGAGGGAGTTGTCAAGT
CTCTGCTGGCCAGCCAAACCCTGTCTGACAACCTCTGGTGAACCTTAGTACCTAAAAGGAAATCTCACCCCAT
CCCACACCCTGGAGGATTTTCATCTCTTGTATATGATGATCTGGATCCACCAAGACTTGTTTTATGCTCAGGGTCA
ATTTCTTTTTTCTTTTTTTTTTTTTTTTTTTTTCTTTTTCTTTGAGACTGGGTCTCGCTTTGTTGCCAGGCTGGAGT
GGAGTGGCGTGATCTTGGCTTACTGCAGCCTTTGCCTCCCCGGCTCGAGCAGTCCTGCCTCAGCCTCCGGAGTAG
CTGGGACCACAGGTTTCATGCCACCATGGCCAGCCAACTTTGTCATGTTTTGTAGAGATGGGGTCTCACAGTGTG
CCCAGGCTGGTCTCAAACCTCTGGGCTCAGGCGATCCACCTGTCTCAGCCTCCCAGAGTGTGGGATTACAATTG
TGAGCCACCACGTCCAGCTGGAAGGGTCAACATCTTTTACATTCTGCAAGCACATCTGCATTTTACCCCCACCT
TCCCTCCTTCTCCCTTTTTATATCCCATTTTTATATCGATCTCTTATTTTACAATAAACTTTGCTGCCA

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FIGURE 4694

AGTGCTTTCAAAAAGAATTGGCGTCCGCTGTTTCGCCTCTCCTCCCGGGAGTCTTCTGCCTACTCCCAGAAGAGGAG
GGAAGCACAXGGXTXGGGTTTCTTTAGCTCTGCGTCGGATCCCTGAGAACTTCGXAXAGXCCATCCTGGCTGAGG
CTAATCTCCGCTGTGCTTCCTCTGCAGTATGAAGACTTTGGAGACTCAACCGTTAGCTCCGGACTGCTGTCCTTC
AGACCAGGACCCAGCTCCAGCCCATCCTTCTCCCCACGCTTCCCCGATGAATAAAAAATGCGGACTCTGAACTGAT
GCCACCGCCTCCCGAAAAGGGGGGATCCGCCCCGGTTGTCCCAGATCCTGTGGCTGGCTCAGCTGTGTCCCAGGA
GCTACGGGAGGGGGACCCAGTTTCTCTCTCCACTCCCCTGGAAACAGAGTTTGGTTCCTTAGTGAGTTGAGTCC
TCGAATCGAGGAGCAAGAACTTTCTGAAAATACAAGCCTTCTCTGCAGAAGAAGCAAACGGGAGCCTTTCTGAAGA
AGAAGCGAACGGGCCAGAGTTGGGGTCTGGAAGCCATGGAAGATACCTCTGGGGAACCCGCTGCAGAGGACGA
GGGAGACACCGCTTGGAACACAGCTTCTCCCAGCTGCCTCGATTTCTCAGTGGTTCTTGGTCAGAGTTCAGCAC
CCAACCTGAGAACTTCTTGAAAGGCTGTAAGTGGGCTCCTGACGGTTTCTGTCATCTTGACCAATAGTGCTGATAA
CATCTTGCGAATTTATAACCTGCCCCAGAGCTGTACCATGAGGGGGAGCAGGTGGAATATGCAGAAATGGTCCC
TGTCCTTCGAATGGTGGAAGGTGATACCATCTATGATTACTGCTGGTATTCTCTGATGTCCTCAGCCCAGCCAGA
CACCTCTACGTGGCCAGCAGCAGCCGGGAGAACCCGATTTCATATCTGGGACGCATTCCTGAGAGCTCCGGGC
TTCCTTTTCGCGCTACAACCACCTGGATGAGCTGACGGCAGCCCATTTCGCTCTGCTTCTCCCCGGATGGCTCCCA
GCTCTTCTGTGGCTTCAACCGGACTGTGCGTGTTTTTTCCACGGCCCCGGCCTGGCCGAGACTGCGAGGTCCGAGC
CACATTTGCAAAAAAGCAGGGCCAGAGCGGCATCATCTCTGCATAGCCTTCAGCCCAGCCCAGCCCCTCTATGC
CTGTGGCTCCTACGGCCGCTCCCTGGGTCTGTATGCCTGGGATGATGGCTCCCTCTCGCCTTGCTGGGAGGGCA
CCAAGGGGGCATCACCCACCTCTGCTTTTCATCCCGATGGCAACCGCTTCTTCTCAGGAGCCCGCAAGGATGCTGA
GCTCCTGTGCTGGGATCTCCGGCAGTCTGGTTACCCACTGTGGTCCCTGGGTGAGAGGTGACCACCAATCAGCG
CATCTACTTCGATCTGGACCCGACCGGGCAGTTCTTAGTGAGTGGCAGCACGAGCGGGGCTGTCTCTGTGTGGGA
CACGGACGGGCCTGGCAATGATGGGAAGCCGGAGCCCGTGTGAGTTTTCTGCCCCAGAAGGACTGCACCAATGG
CGTGAGCCTGCACCCTAGCCTGCCTCTCCTGGCCACTGCCTCCGGTCAGCGTGTGTTTCTGAGCCACAGAGAG
TGGGGACGAAGGAGAGGAGCTGGGCCTTCCCTTGCTCTCCACGCGCCACGTCCACCTTGAATGTCGGCTTCAGCT
CTGGTGGTGTGGGGGGGCGCCAGACTCCAGCATCCCTGATGATCACCAGGGCGAGAAAGGGCAGGGAGGAACGGA
GGGAGGTGTGGGTGAGCTGATATAAAAAGGTTTTTATGAT

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FIGURE 4695

ACTTGTTCATGGCGACTGTCCAGCTTTGTGCCAGGAGCCTCGCAGGGGTTGATGGGATTGGGGTTTTCCCCTCCCA
TGTGCTCAAGACTGGCGCTAAAAGTTTTGAGCTTCTCAAAAGTCTAGAGCCACCGTCCAGGGAGCAGGTAGCTGC
TGGGCTCCGGGGACACTTTGCGTTCGGGCTGGGAGCGTGCTTTCCACGACGGTGACACGCTTCCCTGGATTGGCA
GCCAGACTGCCTTCCGGGTCACTGCCATGGAGGAGCCGCAGTCAGATCCTAGCGTCGAGCCCCCTCTGAGTCAGG
AAACATTTTCAGACCTATGGAACACTACTTCCTGAAAACAACGTTCTGTCCCCCTTGCCGTCCCAAGCAATGGATG
ATTTGATGCTGTCCCCGGACGATATTGAACAATGGTTCACTGAAGACCCAGGTCCAGATGAAGCTCCCAAGATGC
CAGAGGCTGCTCCCCCGTGGCCCCCTGCACCAGCAGCTCCTACACCGGCGGCCCTGCACCAGCCCCCTCCTGGC
CCCTGTTCATCTTCTGTCCCTTCCCAGAAAACCTACCAGGGCAGCTACGGTTTCCGTCTGGGCTTCTTGCAATTCTG
GGACAGCCAAGTCTGTGACTTGACGTACTCCCTGCCCTCAACAAGATGTTTTGCCAACTGGCCAAGACCTGCC
CTGTGCAGCTGTGGGTTGATTCCACACCCCCGCCCCGACCCGCGTCCGCGCCATGGCCATCTACAAGCAGTCAC
AGCACATGACGGAGGTTGTGAGGCGCTGCCCCACCATGAGCGCTGCTCAGATAGCGATGGTCTGGCCCCCTCCTC
AGCATCTTATCCGAGTGGAAGGAAATTTGCGTGTGGAGTATTTGGATGACAGAAACACTTTTCGACATAGTGTGG
TGGTGGCCTATGAGCCGCTGAGGTTGGCTCTGACTGTACCACCATCCACTACAACATACATGTGTAACAGTTCTC
GCATGGGCGGCATGAACCGGAGGCCATCCTCACCATCATCACACTGGAAGACTCCAGTGGTAATCTACTGGGAC
GGAACAGCTTTGAGGTGCGTGTTTGTGCTGTCTGAGAGACCGGCGCACAGAGGAAGAGAATCTCCGCAAGA
AAGGGGAGCCTCACCACGAGCTGCCCCCAGGGAGCACTAAGCGAGCACTGCCCAACAACACCAGCTCCTCTCCCC
AGCCAAAGAAGAAACCCTGGATGGAGAATATTTACCCCTCAGATCCGTGGGCGTGAGCGCTTCGAGATGTTCC
GAGAGCTGAATGAGGCCCTTGGAACTCAAGGATGCCAGGCTGGGAAGGAGCCAGGGGGGAGCAGGGCTCACTCCA
GCCACCTGAAGTCCAAAAAGGTCAGTCTACCTCCCGCCATAAAAACTCATGTTCAAGACAGAAGGGCCTGACT
CAGACTGACATTCTCCACTTCTTGTTCCTTCCACTGACAGCCTCCACCCCCATCTCTCCCTCCCTGCCATTTTGG
GTTTTGGGTCTTTGAACCTTGCTTGCAATAGGTGTGCGTCAGAAGCACCCAGGACTTCCATTTGCTTTGTCCCG
GGGCTCCACTGAACAAGTTGGCCTGCACTGGTGTGTTTGTGTTGGGGAGGAGGATGGGGAGTAGGACATACCAGCT
TAGATTTTAAGGTTTTTACTGTGAGGGATGTTTGGGAGATGTAAGAAATGTTCTTGCAAGTAAAGGGTTAGTTTAC
AATCAGCCACATTCTAGGTAGGGGCCACTTCACCGTACTAACCAGGGAAGCTGTCCCTCACTGTTGAATTTTCT
CTAACTTCAAGGCCCATACTGTGAAATGCTGGCATTGTCACCTACCTCACAGAGTGCAATTGTGAGGGTTAATGA
AATAATGTACATCTGGCCTTGAAACCACCTTTTATTACATGGGGTCTAGAACTTGACCCCCCTTGAGGGTGCTTGT
TCCCTCTCCCTGTGTTGGTGGTGGTGGTAGTTTCTACAGTTGGGCAGCTGGTTAGGTAGAGGGAGTTGTCAAGT
CTCTGCTGGCCAGCCAAACCCTGTCTGACAACCTCTTGGTGAACCTTAGTACCTAAAAGGAAATCTCACCCCAT
CCCACACCCTGGAGGATTTCACTCTTGTATATGATGATCTGGATCCACCAAGACTTGTTTTATGCTCAGGGTCA
ATTTCTTTTTTCTTTTTTTTTTTTTTTTTTCTTTTTCTTTGAGACTGGGTCTCGCTTTGTTGCCAGGCTGGAGT
GGAGTGGCGTGATCTTGGCTTACTGCAGCCTTTGCCCTCCCCGGCTCGAGCAGTCCTGCCTCAGCCTCCGGAGTAG
CTGGGACCACAGGTTTCATGCCACCATGGCCAGCCAACCTTTGCATGTTTTGTAGAGATGGGGTCTCACAGTGTG
CCCAGGCTGGTCTCAAACTCCTGGGCTCAGGCGATCCACCTGTCTCAGCCTCCAGAGTGCTGGGATTACAATTG
TGAGCCACCACGTCCAGCTGGAAGGGTCAACATCTTTTACATTCTGCAAGCACATCTGCATTTTACCCCCACCT
TCCCCCTCTCTCCCTTTTTATATCCCATTTTTATATCGATCTCTTATTTTACAATAAACTTTGCTGCCA

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FIGURE 4696

GCCGCTGAGAAAGCGCAGAGAAGGCGGGCCCCGTCTGAGGTCTGGCAGTCAGAGACAGCCGGGCGCCACGGCCC
GAGCGCCACGGCAGCACCATGCCCCGCACTCCTGGAGCGCCCCAAGCTTTCCAACGCCATGGCCAGGGCGCTGCA
CCGGCACATTATGATGGAGCGGGAGCGCAAGCGGCAGGAGGAAGAAGAGGTGGATAAGATGATGGAACAGAAGAT
GAAGGAAGAACAGGAGAGAAGGAAGAAAAAGGAGATGGAAGAGAGAATGTCATTAGAGGAGACCAAGGAACAAAT
TCTGAAGTTGGAGGAGAAGCTTTTGGCTCTACAGGAAGAGAAGCACCAGCTTTTCTGCAGCTCAAGAAAGTTTT
ACATGAGGAAGAAAAACGGAGGCGAAAGGAACAGAGTGACCTGACCACCCTAACATCAGCTGCATACCAGCAGAG
CCTGACTGTTTACACAGGAACCTCATCTCCTCAGCATGCAGGGGAGCCCTGGAGGACACAATCGCCCAGGCACCCT
CATGGCAGCTGACAGAGCCAAACAAATGTTTGGACCCCAAGTGCTTACGACCCGGGCACTACGTGGGCTCAGCAGC
TGCTTTTGCAGGGACACCAGAGCATGGACAATTCCAAGGCAGTCCTGGTGGTGCCTATGGGACTGCTCAGCCCCC
ACCTCACTATGGGCCCCACACAGCCAGCTTATAGTCCTAGTCAGCAGCTCAGAGCTCCTTCGGCATTCCCTGCAGT
GCAGTACCTATCTCAGCCACAGCCACAGCCCTATGCTGTGCATGGCCACTTTCAGCCCACTCAGACAGGTTTCCT
CCAGCCTGGTGGTGGCTGTCTTGCAAAAGCAGATGGAACATGCTAACCAGCAGACTGGCTTCTCCGACTCATC
CTCTCTGCGCCCCATGCACCCCCAGGCTCTGCATCCAGCCCCTGGACTCCTTGCTTCCCCCAGCTCCCTGTGCA
GATGCAGCCAGCAGGAAAGTCGGGCTTTGCAGCTACCAGCCAACCTGGCCCTCGGCTCCCCTTCATCCAACACAG
CCAGAACCCGCGATTCTACCACAAGTGACCATCAGATTATATCTTCAACACCACACCCCCACCCCATCGTGGGT
GAGGGTATCCCCTGTGTGTCCCAGGCCAATAAAATCTACCTGCCA

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FIGURE 4698

MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAKVHLVGIDIFTGKKYEDICPS
THNMDVPNIKRND FQLIGIQDGYLSLLQDSGEVREDLRLPEGDLGKEIEQKYDCGEEILITVLSAMTEEA A VAIK
AMAK

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FIGURE 4699

GGCCGGGAGAGTAGCAGTGCCTTGGACCCCAGCTCTCCTCCCCCTTTCTCTCTAAGGATGGCCCAGAAGGAGAAC
TCCTACCCCTGGCCCTACGGCCGACAGACGGCTCCATCTGGCCTGAGCACCCCTGCCCCAGCGAGTCCTCCGGAAA
GAGCCTGTCACCCCATCTGCACTTGTCTCATGAGCCGCTCCAATGTCCAGCCCACAGCTGCCCCCTGGCCAGAAG
GTGATGGAGAATAGCAGTGGGACACCCGACATCTTAACGCGGCACTTCACAATTGATGACTTTGAGATTGGGCGT
CCTCTGGGCAAAGGCAAGTTTGGAAACGTGTACTTGGCTCGGGAGAAGAAAAGCCATTTTCATCGTGGGCGCTCAAG
GTCTCTTCAAGTCCCAGATAGAGAAGGAGGGCGTGGAGCATCAGCTGCGCAGAGAGATCGAAATCCAGGCCCCAC
CTGCACCATCCCAACATCCTGCGTCTCTACAACATTTTTATGACCGGAGGAGGATCTACTTGATTCTAGAGTAT
GCCCCCGCGGGGAGCTCTACAAGGAGCTGCAGAAGAGCTGCACATTTGACGAGCAGCGAACAGCCACGATCATG
GAGGAGTTGGCAGATGCTCTAATGTACTGCCATGGGAAGAAGGTGATTACAGAGACATAAAGCCAGAAAATCTG
CTCTTAGGGCTCAAGGGAGAGCTGAAGATTGCTGACTTCGGCTGGTCTGTGCATGCGCCCTCCCTGAGGAGGAAG
ACAATGTGTGGCACCCCTGGACTACCTGCCCCCAGAGATGATTGAGGGGCGCATGCACAATGAGAAGGTGGATCTG
TGGTGCATTGGAGTGCTTTGCTATGAGCTGCTGGTGGGGAACCCACCCCTTTGAGAGTGCATCACACAACGAGACC
TATCGCCGCATCGTCAAGGTGGACCTAAAGTTCCCCGCTTCTGTGCCCACGGGAGCCCAGGACCTCATCTCCAAA
CTGCTCAGGCATAACCCCTCGGAACGGCTGCCCCTGGCCCAGGTCTCAGCCCACCCCTGGGTCCGGGCCAACTCT
CGGAGGGTGCTGCCTCCCTCTGCCCTTCAATCTGTGCGCTGATGGTCCCTGTCATTCACTCGGGTGCGTGTGTTT
GTATGTCTGTGTATGTATAGGGGAAAGAAGGGATCCCTAACTGTTCCCTTATCTGTTTTCTACCTCCTCCTTTGT
TTAATAAAGGCTGAAGCTTTTTGT

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FIGURE 4700

MAQKENSYPWPYGRQTAPSGLSTLPQRVLRKEPVTPSALVLMRSRNVQPTAAPGQKVMENSSGTPDILTRHFTID
DFEIGRPLGKGKFGNVYLAREKKSHFIVALKVLFKSQIEKEGVEHQLRREIEIQAHLHHPNILRLYNFYDRRI
YLILEYAPRGELYKELQKSCTFDEQRTATIMEELADALMYCHGKKVIHRDIKPENLLLGLKGELKIADFGWSVHA
PSLRRKTMCGTLDYLPPEMIEGRMHNEKVDLWCIGVLCYELLVGNPPFESASHNETYRRIVKVDLKFPASVPTGA
QDLISKLLRHNP SERLPLAQVSAHPWVRANSRRVLPPSALQSV

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FIGURE 4701

AGATGGAAGTACAGGCTCCACCAGGCACCACCATTGGCCACGTGCTACAGACCTGGCATCCCTTCCTCCCCAAGT
TCTCCATCCAGGATGCCGATCGCCAGACAGTCTTGCGAGTGGTGGGGCCCTGCTGGACCTGTGGCTGTGGCACAG
ACACCAACTTTGAGGTGAAGACTCGGGATGAATCCCGCAGTGTGGGCCGCATCAGCAAGCAGTGGGGGGGCTGG
TCCGAGAAGCCCTCACAGATGCAGATGACTTTGGCCTACAGTTCCCGCTGGACCTGGATGTGAGGGTGAAGGCTG
TGCTGCTGGGAGCCACATTCTCATTGACTACATGTTCTTTGAGAAGCGAGGAGGCGCTGGGCCCCCTGTCCGTCA
CCAGTTAGAGGCCACCATGGTGTGAGGAGACCATCACCTCGACCAGAACTCCAGATGGTCACCTGCCCTGGCCCC
TCCTCTGGGCAGCCCCCTTTCTCCATGTACACTGCAGGGGACAGAAGGGGGGCCCCATCCCTACCTACTCCCTG
GCCGCTGCCCTGTGGTTCCCAAGGAGGGGTATGTATGAGAGCCGCTCTCCTGCTACCTCCCACCACTGTCCCA
GCAGTCCCTCGGCACACAGGCATATCAGCTTTCACACTTTCCTCCATGCACTCTCTCCCACCCCTTCCAGGGCCT
CTGCTCCAAAGGAGGCCTCTGGAACCCAGGACTCTGGGGTTTTACAAGAGGGCTGGGGTGTGGAAGGGCAAGCTG
CACCAAAGACGGTGGATATAGCCACCGCCCCCGCCGCTGCCTAGCATCTGCTTGGCCAATTAGTTCAGCCTCA
GACCATGGCACTTTGAGGGGGTCTCTACCTCCCCATCAACAGCTGCAGGGGGACCCAGTGCCAACCTTCTCTCC
CACTAGGGGCCCTGCCCTTCAGCTGGTGTCTGCTGCGATTCTGTGCCTTATGTAAGTGCCTTCCTTCCCTTGCCC
TAGGAAAAAGGCTGCATCTTTATATGTTACATTCATATAAACTTTGTAACTTTTTGG

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FIGURE 4702

MEVQAPP GTTIGHVLQTWHPFLPKFSIQDADRQTVLRVVGPCWTCGCGTDINFEVKTRDESRSVGRISKQWGGLV
REALTDADDFGLQFPLDLLDVRVKAVLLGATFLIDYMF FEKRGGAGPSAVTS

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FIGURE 4703

GCTCCGCTGAATCCGCCCCGCGCGTCGCCGCCGTTCGTCGCCGCCCCCGTCCCGGCCCCCTGGGTTCCCTCAGCC
CAGCCCTGTCCAGCCCGGTTCCCGGGAGGATGAAGTTCGTGTACAAAGAAGAGCATCCGTTGAGAAGCGCCGCT
CTGAGGGCGAGAAGATCCGAAAGAAATACCCGGACCGGGTGCCGGTGATAGTAGAAAAGGCTCCCAAAGCTCGGA
TAGGAGACCTGGACAAAAAGAAATACCTGGTGCCTTCTGATCTCACAGTTGGTCAGTTCTACTTCTTGATCCGGA
AGCGAATTCATCTCCGAGCTGAGGATGCCTTGTTTTCTTTGTCAACAATGTCATTCCACCCACCAGTGCCACAA
TGGGTCAGCTGTACCAGGAACACCATGAAGAAGACTTCTTTCTCTACATTGCCTACAGTGACGAAAAGTGTCTACG
GTCTGTGAAGCTGCTGCCCCTGAGCTGGAGGGGGGTCTCATTCTACAAAGAGAGAGGTGGCCCCCTTTCTTGAC
CTCCTCCTCCTTCAAGCTCAAACACCACCTCCCTTATTTCAGGACCGGCACTTCTTAATGTTTGTGGCTTTCTCTC
CAGCCTCTCTTAGGAGGGGTAATGGTGGAGTTGGCATCTTGTAACCTCTCCTTTCTCCTTTCTTCCCCCTTTCTCTG
CCCGCCTTTCCCATCCTGCTGTAGACTTCTTGATTGTCAGTCTGTGTACATCCAGTGATTGTTTGGTTTCTGT
TCCCTTTCTGACTGCCCAAGGGGCTCAGAACCCAGCAATCCCTTCCTTTCACTACCTTCTTTTTTGGGGGTAGT
TGGAAGGGACTGAAATTGTGGGGGAAGGTAGGAGGCACATCAATAAAGAGGAAACCACCAAGCTG

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FIGURE 4704

GAGACCATGGCGGGTAGCAGCACTGGGGGCGGTGGGGTTGGGGAGACGAAGGTGATTTACCACCTGGATGAGGAA
GAGACTCCCTACCTGGTGAAGATCCCTGTCCCCGCCGAGCGCATCACCTCGGCGATTTCAAGAGCGTCCTGCAG
CGGCCCCGCGGGCGCCAAGTACTTTTTCAAGTCTATGGATCAGGATTTGGGGTGGTGAAGGAAGAAATTTAGAT
GACAACGCCCCGCTCCCTGCTTCAACGGAAGGGTGGTATCCTGGCTGGTGTCTCAGATAATCCCCAACCCGAG
ATGGCCCCCTCCAGTCCATGAGCCTCGGGCAGAAGTGGCGCCTCCAGCCCCACCTTTACCTCCTTTGCCACCCGAG
AGGACCAGCGGCATTGGGGACTCAAGGCCTCCATCCTTCCACCCTAATGTGTCCAGCAGCCATGAGAATCTGGAG
CCTGAGACAGAAACCGAGTCAGTAGTGTCACTGAGGCGGGAGCGGCCTCGCAGGAGAGACAGCAGTGAGCATGGC
GCTGGGGGCCACAGGACTGGTGGCCCCCTCAAGGCTGGAGCGCCACCTGGCCGGATACGAGAGCTCCTCTACCCTC
ATGACCAGCGAGCTGGAGAGTACCAGCCTGGGGGACTCGGACGAGGAGGACACCATGAGCAGGTTTACAGCAGCTCC
ACGGAGCAGAGCAGTGCCTCCCGCCTCCTTAAGCGCCACCGGCGGCGAAGGAAGCAGAGGCCACCCCGCCTGGAG
AGGACGTCATCCTTACAGCAGCGTCACAGATTCCACAATGTCTCTCAATATCATCACAGTCACGCTAAACATGGAG
AAGTACAACCTTCTGGGTATCTCCATTGTTGGCCAGAGCAATGAGCGGGGAGACGGAGGCATCTACATTGGCTCC
ATCATGAAGGGTGGGGCTGTGGCGGCCGACGGGCGCATTGAGCCAGGGGACATGCTTTTGAGGTGAATGACATG
AACTTTGAGAACATGAGCAACGATGACGCTGTGCGGGTGTGAGGGACATTGTGCACAAGCCTGGCCCCATTGTG
CTGACTGTGGCCAAGTGCTGGGATCCCTCTCCTCAGGCCTATTTCACTCTCCCCGAAATGAGCCCATCCAGCCA
ATTGACCCTGCTGCCTGGGTGTCCCATTCGCGGCTCTGACTGGCACCTTCCCAGCCTATCCAGGTTTCTCTCTCC
ATGAGCACCATTACATCTGGATCGTCTTTGCCTGATGGCTGTGAAGGCCGGGTCTCTCCGTCCATACGGACATG
GCATCGGTGACCAAGGCCATGGCAGCTCCAGAGTCTGGACTGGAAGTCCGGGACCGCATGTGGCTCAAGATCACC
ATCCCTAATGCCTTTCTGGGCTCGGATGTGGTTGACTGGCTCTACCATCACGTGGAGGGCTTTCTCTGAGCGGCGG
GAGGCCCGCAAGTATGCCAGCGGGCTGCTCAAAGCAGGCCTGATCCGACACACCGTCAACAAGATCACCTTCTCT
GAGCAGTGCTATTACGTCTTCGGAGACCTCAGTGGTGGCTGTGAGAGCTACCTAGTCAACCTGTCTCTCAATGAC
AACGATGGCTCCAGTGGGGCTTCAGACCAGGATACCCTGGCTCCTCTGCCTGGGGCCACCCCTGGCCCCCTGCTG
CCCCTTTCTCCTACCAATACCCTGCCCCACACCCCTACAGCCCGCAGCCTCCACCCTACCATGAGCTTTTCATCT
TACACCTATGGTGGGGGAGTCCAGCAGCCAGCATAGTGAGGGGAGCCGGAGCAGTGGGTGACACGGAGTGAT
GGGGGGGAGGGGCGACGGGGAGGCCCGAGGAGCGGGCCCCGAGTCCAAGTCCGGCAGTGGCAGTGAGTCTGAG
CCCTCCAGCCGAGGGGGCAGCCTTCGGCGGGGTGGGGAAGCAAGTGGGACTAGCGATGGGGGGCCCTCCTCCATCC
AGAGGCTCAACTGGGGGTGCCCTAATCTCCGAGCCCACCCAGGGCTCCATCCCTATGGACCGCCCCCTGGCATG
GCCCTCCCCTACAACCCCATGATGGTGGTCATGATGCCCCACCTCCACCTCCAGTCCCTCCAGCAGTGCAGCCT
CCGGGGGGCCCTCCAGTCAGAGACCTGGGCTCTGTGCCCCAGAACTGACAGCCAGCCGCCAAAGCTTCCACATG
GCCATGGGCAATCCCAGCGAGTTCTTTGTGGATGTTATGTAGCCCACTGTGGGGCCAGGCTGGGGCCGGGCGCTCC
TGGTGTGTGACTGGGTGTCTGGCCGTATGTGCTTGTCTTACAGTGCCTGGGCTCAGCCTACCAGCTGCTGCC
ATACAGGAGATTGTGGCCACTGTGACTCTCACCAGCAGTGCCTGGTTCCCTCCCCCTTCCCTCAGGGGTAGACAAG
GGACCTTTGATTATTTTTAGCTTTGTTTTTTTATAAGCCTTTTTGGGGGTAAATAGAGTTTCTTACATTTTG
GGACTTTTTTAATAGGCATTTCCTCTTTT

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FIGURE 4705

MAGSSTGGGGVGETKVIYHLDEEETPYLVKIPVPAERITLGDfKSVLQRPAGAKYFFKSMDQDFGVVKEEISDDN
ARLPCFN GRVVSWLVSSDNPQPEMAPPVHEPRAELAPPAPPLPLPPERTSGIGDSRPPSFHPNVSSSHENLEPE
TETESVVS LRRERPRRRDSSEHGAGGHRTGGPSRLERHLAGYESSSTLMTSELESTSLGDSDEEDTMSRFSSTE
QSSASRL LKRHHRRRRKQRPRLERTSSFSSVTDSTMSLNIITVTLNMEKYNFLGISIVGQSNERGDGGIYIGSIM
KGGAVAADGRIE PGDMLLQVNDMNFENMSNDDAVRVL RDIVHKPGPIVLTVA KCWDPS PQAYFTLPRNEPIQPID
PAAWVSHAALTGTFFPAYPGSSSMSTITSGSSLPDGCEGRGLSVHTDMASVTKAMAAPESGLEVRDRMWLKITIP
NAFLGSDVVDWLYHHVEGFPERREARKYASGLLKAGLIRHTVNKITFSEQCYYVFGDLSGGCESYLVNLSLNDND
GSSGASDQDTLAPLP GATPWFLLP TFSYQYPAPHYPSPQPPPYHELSSYTYGGGSASSQHSEGSRSSGSTRSDGG
AGRTGRPEERAPESKSGSGSESEPSSRGGSLRRGGEASGTS DGGPPPSRGSTGGAPNLR AHPGLHPYGP PPGMAL
PYNPMMVMMPPPPPPVPPFAVQPPGAPPVRDLGSVPPELTASRQSFHMAMGNPSEFFVDVM

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FIGURE 4706

GGGCCAGCGCGGCCCGGGCCGCCCTCGCCTCCCACCCAGGGCGCTGAGCACGCACGCCGCCGGCCTGGCGGCGTT
CGCGGGGGCCCGGACCAGCCGCCGCTTCTCCAGGCGCTCCTACTCTCTGGGCATCTGCAGTCCGAGCGGAAGGG
GCGGGAACGTTCGGCGACGCCGAGGAGCAAAGCCCACGATCGGCTTCCCGGGGCAGCGGACGGCTGCCTTCCTCCC
GGCGCAAACGCACCGCCCAGGAGGGGGCGGGCTCGGCGGGTTCGGGGGCGGGGCCGGGGTCCGAGCTCGGGCCCCG
CCTCCGCCTCCGCCAGCTCCTGTGAGCTGCCGAGTGCTAGGCACCCGGGCTCTTCTGGGGGCTCCAGAACTAAGC
CACCCAGACACCATCATCTCGAAAACCCAGCCCTTCTCCCATGGCAGGCTACTTGCCCCCAAAGGCTACGCCC
CTTCGCCCCACCTCCCTACCCTGTCAACCCCTGGGTACCCGGAGCCGGCGCTACATCCTGGGCCCCGGGCAGGCGC
CAGTGCCCGCCAGGTACCTGCCCCAGCTCCCGGCTTCGCCCTCTTCCCTCGCCTGGCCCCGTTGGCCTTGGGGT
CTGCTGCCCCCTTCTTGCCACTGCCAGGGGTGCCTTCTGGCCTCGAATTCCTGGTGCGAGATTGATCAGATTTGA
TTCACCAGAAGGCTGAGCGAGTGGAAACGTTCCTAGGCTGGGAGACCTGTAATCGGTATGAACTGCGCTCTGGGG
CCGGGCAGCCCCTGGGTTCAGGCGGCCGAGGAGAGCAACTGCTGCGCCCGTCTGTGCTGTGGCGCCCCGCCGGCCGC
TGCGTGTCCGCCTGGCCGACCCCGGGGACCGTGAGGTGCTGCGTTTGCTCCGCCCGCTGCACTGTGGCTGCAGCT
GCTGCCCCCTGTGGCCTCCAGGAGATGGAAGTACAGGCTCCACCAGGCACCACCATTGGCCACGTGCTACAGACCT
GGCATCCCTTCCTCCCCAAGTTCTCCATCCAGGATGCCGATCGCCAGACAGTCTTGCGAGTGGTGGGGCCCTGCT
GGACCTGTGGCTGTGGCACAGACACCAAC

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FIGURE 4707

AGTTGGAATCGAAGCCTCTTAAAATGGCAGATGACTTGGACTTCGAGACAGGAGATGCAGGGGCCTCAGCCACCT
TCCCAATGCAGTGCTCAGCATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCCGGCCATGTAAGATCGTCGAGA
TGTCTACTTCGAAGACTGGCAAGCACGGCCACGCCAAGGTCCATCTGGTTGGTATTGACATCTTTACTGGGAAGA
AATATGAAGATATCTGCCCCGTCAACTCATAATATGGATGTCCCCAACATCAAAGGAATGACTTCCAGCTGATTG
GCATCCAGGATGGGTACCTATCACTGCTCCAGGACAGCGGGGAGGTACGAGAGGACCTTCGTCTCCCTGAGGGAG
ACCTTGGCAAGGAGATTGAGCAGAAGTACGACTGTGGAGAAGAGATCCTGATCACGGTGCTGTCTGCCATGACAG
AGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAATAACTGGCTCCCAGGGTGGCGGTGGTGGCAGCAGTGATCC
TCTGAACCTGCAG

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FIGURE 4708

GGCCCCCCCCCCCCCTAGAAATGCTCGAACCAGGACGGCTCCTGGAGTCTCTCGCGCCCTCGCAGAAGGACTACGG
GCCCCGGCGACCCCGGGGGCGGGGCTTCCGGCGCGCTGCCTTGTGGGCACGGTAGTTCCGCCGGGTCTGGCTTCC
GCCTGCCGAGCGGGCCCCGGACCGCAGGCCGGAATACTTCCCGTCGGCCCGCTGCTCTCCCGATGCCGCCTTG
GCGCGAGACGTTGGCAAGCAGAGTGTCTCCAAGATGGCCGCTTGGGGAAGGAGGCGTCTTGCCCCGGGCAGCAGT
GGCGGCAGCGCCCCGAGAGAGGGTGAGCTTGTGCGCCACAGACTGCTACATTGTGCATGAGATCTACAATGGGGAG
AATGCCCAAGACCAGTTTGAGTACGAGCTGGAGCAGGCCCTGGAAGCCAGTACAAGTACATTGTGATTGAGCCC
ACTCGCATTGGCGACGAGACAGCCCGCTGGATCACCGTGGGCAACTGCCTGCACAAGACGGCCGTGCTGGCGGGC
ACCGCTGCCTCTTCACCCCGTTGGCGCTGCCCTTAGATTATTCCCACTACATTTCCTGCCCCGCTGGTGTGCTG
AGCCTGGCCTGCTGCACCCCTCTATGGGATCTCCTGGCAGTTTGACCCTTGCTGCAAGTACCAAGTGGAGTACGAC
GCCTATAAACTGTGCGCGCTGCCTCTGCACACACTCACCTCCTCCACCCCGGTGGTGTGCTGGTCCGGAAGGACGAC
CTGCACAGAAAGAGACTGCACAACACGATAGCACTGGCCGCCCTGGTGTACTGTGTAAAGAAGATTTACGAACCTC
TATGCCGTATGATTTTTCAGTAGAACAGGGAGCGAAGCAAAACCACCCGGCCCAAGAGACAACAGAGTATTCAGA
TCGCCCACTCTGTGAGGCAGCAGAGCCTGGGCAGGTGTTTGGCTTAGTATTTGTTATTTTAAAAAATAACAGA
TCACGGGTGTACCCAGGGTTTTTCAGCTCATTACACTAAGATGTGGATTTCCATAACCCAAGAGGGGGGTCTGAG
GCTGTGGAAGTCCGACTGGGCAGTGAATGCTGATGGAGGCAGACGCTGCCGAGGGGGTGTGGACGTGCTTTGGG
GGAGGTCTTTAAGTCTATTGTTTAACTGTACCATCCAGAGCCACCAGAAGCTATTGATCATTAAAATTATGAGA
ATTCAACTCC

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FIGURE 4709

MAAWGRRRLGPGSSGGSARERVSLSATDCYIVHEIYNGENAQDQFEYELEQALEAQYKYIVIEPTRIGDETARWI
TVGNCLHKTAVLAGTACLF TPLALPLDYSHYISLPAGVLSLACCTLYGISWQFDPCCKYQVEYDAYKLSRLPLHT
LTSSTPVVLVRKDDLHRKRLHNTIALAALVYCVKKIYELYAV

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FIGURE 4710A

AGGCCAAGTCCTGTATCTGCCATGTCTGTGGCGTCCACCTCAACAGGCTGCATTCTCGCTCTACTGTGTCTTCT
TCGGCTGTTTCACAAAGAAGCATATTCACGAGCATGCGAAGGCGAAGCGGCACAACCTGGCCATTGATCTGATGT
ACGGAGGCATCTACTGTTTTCTGTGCCAGGACTACATCTATGACAAAGACATGGAAATAATCGCCAAGGAGGAGC
AGCGAAAAGCTTGAAAATGCAAGGCGTTGGAGAGAAGTTTTCAACTTGGGAACCAACCAACGGGAGCTTGAAC
TGCTGAAGCACAAACCCGAAAAGGAGAAAGATCACCTCGAACTGCACCATAGGTCTGCGTGGGCTGATCAACCTTG
GGAACACATGCTTCATGAACTGCATCGTGCAGGCCCCTGACCCACACGCCACTTCTGCGGGACTTCTTCCTGTCTG
ACAGGCACCGCTGTGAGATGCAGAGCCCCAGCTCCTGTCTGGTCTGTGAGATGTCTCTACTGTTTCAGGAGTTTT
ACTCTGGACACCGGTCCCCTCACATCCCGTATAAGTTGCTGCACCTGGTGTGGACCCACGCGAGGCACCTAGCAG
GCTACGAGCAGCAGGACGCCCACGAGTTCCCTCATCGCGGCCCTGGACGTGCTCCACCGACACTGCAAAGGTGATG
ACAATGGGAAGAAGGCCAACAAACCCCAACCACTGCAACTGCATCATAGACCAGATCTTCACAGGCGGGTGCAGT
CAGACGTACCTGCCAAGTCTGCCATGGAGTCTCCACCACCATCGACCCCTTCTGGGACATCAGCTTGGATCTCC
CCGGCTCTTCCACCCCATTTCTGGCCCCCTGAGCCCAGGGAGCGAGGGCAACGTGGTAAACGGGGAAAGCCACGTGT
CGGGAACCAACGCTCACGGACTGCCTGCGACGATTACCCAGACCAGAGCACTTGGGCAGCAGCGCCAAGATCA
AGTGCAGCGGTTGCCATAGCTACCAGGAGTCCACAAAGCAGCTCACTATGAAGAACTGCCCATCGTAGCCTGTT
TTCATCTCAAACGATTTTGAACACTCAGCCAAGCTGCGGCGGAAGATCACCACGTATGTGTCTTCCCCCTGGAGC
TGGACATGACCCCTTTTCATGGCCTCCAGCAAAGAGAGCAGGATGAATGGACAGTACCAGCAGCCACGGACAGTC
TCAACAATGACAACAAGTATTCCTGTTTGTCTGTTGTTAACCATCAAGGGACCTTGGAGAGTGGCCACTACACCA
GCTTTATCCGGCAGCACAAAGACCAGTGGTTCAAGTGTGACGATGCCATCATCACCAGGCCAGCATCAAGGACG
TCCTGGACAGCGAAGGGTACTTGTCTGTCTATCACAACAGTTCTTGGAAATACGAGTAGCCTTATCTGCAGCTGG
TCAGAAAAACAAAGGCAATGCATTGGCAAGCCTCACAAAGTGATCCTCCCTGGCCCCCCCCCTCCCCAAGTCTCC
CGCCGCTCCCCGGCCTGGTGACACCACCTCCCATGCAGATGTGGCCCCCTCTGCACCTGGGACCCATCGGGTCCGG
GATGGACCACACGGACGGGGAGGCTCCTGGAGCTGCTTTGAAGATGGATGAGATGAGGGGTGTGCTCTGGGTGGG
AGGAGCAGCGTACACCCGTCACCAGAACATCTCTTGTGTCTGACATGGGGGTGCAACGGGGGCCTCACAGCACA
GAGTGACCGCTGCCTGGCGTTCCCCAGCACTCGGTGTGGAAAGGCCCTACCTGCTGTAAGATTATGGGTCCATG
AAAGCAGTAAGCTGGACACAGAGGTGTAGTGTGCGGGACAGAGGGCCTTGAGATGCCTTTCTGTTGGTGTTTTA
GTGTTAAATACGGAGAGTATGGAACCTCTTCACTCCATTTTCTCAGCGGCTGTGAAGCAGCCTCTAGCTTCGG
AAGTACGGACACTACGTCGCGTTTTCAAGCGTGTCTGTTCTGCAGGTAACAGCATCAAGCTGCACGTGGAAGCAT
CTCGCGGTTTTCTAGAAACAGGCATTTTCTTATCCCTCTCCCGCTCCTTTTTCCACAAAGGTGAATTTCAATAAT
GTAATACTAGTAAAGTGAATGAATTACTGAGTTTATACAGAAATTTAGGTAACTTCTCCTTTAGTCTCAAGAGCG
AGTCTTGCTTTTTAATGGGTGCCGTTTATGTTGCTGCCCCGCCCTGTGTGCCTGGCTCCTCTGGGTGCCCTTGGTGT
CTGCTGGTGGCTGGCAGTGGGCGCAGCGGAGGAGATTGTGCTGCAGCTCATACGGTGTGTCTGTCTCATCTCAGTC
TGGAGTAAATGCAGTGTCTGCCGGTGTCTGATGGGTCTGTGCCCTCGTATTTTCTTTGCCTTCTATCCATTGCC
TGGCTACCGCTGCCTGGCAGCCAAGGGTGTGGTTCGCGAAGCTGGAGTGGCCTCTGGTGGAGCCTGCATCTTGTC
TCGTCTGCCCTCTGCTTTACATTTGGTGTACTTTTGGGCGTGGTGGCAGTAAATGACACCGTGATTGAGCTTGTC
AGCAGAGCTGAAAGAGAAAGTAGAAGGATGTGCATTGTTTCTTGTAAGATATCTTGATGTATCTGTGTATTCAA
ATTCAAACAGAGATGGTTTGTCCATTTGTCCACTGAGAAATTAGAACTAGGGACAAGGGGGAGGAAAAGTACTG
AAATACAGTTTTATGAAGCAAGTGTGTCTCGGGCTGTGCTTGTCCCAGGAGCCCCAGCAGCATCTGAAGTGGGCT
TCTTCAGTCTTGAGGAACAGGATCATCTGTCTCAGCGGTGGGCAGATGTTTTCATAGACAGCCAGGGAGTAAAC
ACTGTTGGCTCTGTGGGCTGTATGGTCTCTGCCATAAATAGTACAGAGATGTGGCTGTGTCTAGTACAACTTTTA
GACACAGAAATCTGAATGACATATATTGTTCTGTGTCAAGAACTTAGATTTTTTTTTTAAGTATTTAAAAACGT
GAAACCTATTCTTAGCTCACAGGCCATGGAGAAGCTGGTGGGGACAGACCCAGCTCCTTAGCTGGCTGGGCTGG
GGAGGGGGTAGTGACAGTGGCAGCTGCTACTCACTGCTCAGTGTGGAAAACACAGGACTTGGCAATCACAGCCCCG
CAGAACCATCATGTGTGGCAGAAGCCTGAGGGATGCGGTTTTCTTGCCACGTGCTCTGTTTCTGTTGTTT
TTCTGCACTTAAAGAAATTCATGGAAGCATGTTTTATAAAATGAATTACCAGAGAAAACAGAGATGGGCCGAGAT
TTTCAGAAATGGTCCCATGTGACCAAGTTCTGCTGTTTGGGTGACAGTGCTTTGAAGATCTCCTTTGAGGATGTG
CAGTCTTTTTTTTTTTTTTTTGGAGATGGAGTTTGTGCCCAGGCTGGAGTGAGTGGCACAGTCTCGGCTCACTG
CAACCTCCACCTCCTGGGTTCAAGCAGTTCTCGTGCCGACGCTCCCAAGTAGCTGGGACTACAGGCATGCACCA
CCACGCCAGGCTAATTTTTGTATTTTGTAGTAGAGATGGGGTTTTACCATGTCTCAAACCTCTGACCTCAGGCGAT

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FIGURE 4710B

CCACCCACCTCAGCGTCCCAAAGTGCTGGGATTATAGGCGTGAGCCACCGCACCTGGCCTATGAGTGGTCTTTTA
ATTAGGAACAAATCTAATGGAAAGGAGAGTTGACTGAAGTTGGCCACAGGATTGTGAGCTGGGCAGTGCCTTCA
TGAAGGCTTGCCACCTTGGGACGCCCCAGTTTACTGGGGTGTCTTGCGGAGTGCAGAAGGCTTCTGGCAGCTGC
CTGGGTTTGGCCAGACCCTGCCTCCCCCTCCCGCCGGCCAACCCCTAGTCCCCTTCCCTGTCTCCACTTGCATTAG
GGGTGGCTGCTGTTCTGAGAACATTAGAACTGGGAAGAGAGATGGAGTCACATGGATTTTTGGTGGGCATTATTC
TAAACTTTTCGTATCCAAGTTAGTCCCCCTTATTCCACTGTGGCATTGCCGTTCTAAGCAGTTACCTGATGCCTGC
TGCTGAAGAGCTGCTCACAGGAGGCGGCGGCCCTGGCACTGCCCCCTTGCAATTAGGTCTTGTGTTTGATGTGT
TCTTGTGAATTTACTTTGTGAGAACAAAATATTTACGCGTTGGGTTTCAGGAATTTCTTTTAGCTCCCCATCTGGC
TGTGAAATTCAGGAAACCTCCCGTTGCCTAGTAATCACCCCATGTAGGTGTACATTGTGACAAAGTGCATCTGAC
CACTAAGGGGCCCCCTTGGTGACCCAGCACATTACAGCAGTGTAAATGGCCTGCATTTTGAGATGCTGGC
TGGCCTTTCAGTGCTCCAGGAAGACACATGGCCTTCCCTCTCAGATGCCTGAAGGGAGTGCTTTGAGGCAG
GTGATGTGCTGGGAGTGTGGGCGGCCCTCCCTCTGGCCCCGGGGCCCTCTGTGGACCTTGGCTCCCTCCGTGGACC
TGGGCTTCGTGGTGAGCACTGCAGCCTCCCTGGGCATTCCCTCCAGCGCCAGCACCACTGCAACATATAGACCTG
AGTGCTATTGTATTTTGGCTTGGTGTGTATGCTCTTCATTGTGTAAATTTGCTGTTCTTTTGACAATTTAAGTGA
TTGTTTTGTTTACTGTAAAGTTTGAAAATAAAAATGAAGAAAAAATTCCAATGACTGTGCTGTGGTTGGAGACTT
TATTTACCAAGATGTTTACTCTTCCTTCCCTTCCATTTTGAGGAGCTGTGTCACTCCTCCTCCCCCCCAGTGC
TTTGTAGTCTCTCCTATGTCATAATAAAGCTACATTTTCTCTG

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FIGURE 4711

MVSRPEPEGEAMDAELAVAPPGCSHLGSFKVDNWKQNLRAIYQCFVWSGTAEARKRKAKSCICHVCGVHLNRLHS
CLYCVFFGCFTKKHIHEHAKAKRHNLAIDLMYGGIYCFQCQDIYDKDMEIIAKEEQRKAWKMQGVGEKFSTWEP
TKRELELLKHNPKRRKITSNCTIGLRGLINLGNTCFMNCIVQALHTHTPLLRDFFLSDRHRCEMQSPSSCLVCEMS
SLFQEFYSGHRSPHIPYKLLHLVWTHARHLAGYEQQDAHEFLIAALDVLHRHCKGDDNGKKANNPNHCNCIIDQI
FTGGLQSDVTCQVCHGVSTTIDPFWDISLDLPGSSTPFWPLSPGSEGNVVNGESHVSGTTTLTDCLRRFTRPEHL
GSSAKIKCSGCHSYQESTKQLTMKKLPVACFHLKRFEHSAKLRRKITTYVSFPLELDMTPFMASKE SRMNGQY
QOPTDSLNNNDNKYSLEFAVVNHQGTLES GHYTSFIRQHKDQWFKCDDAIITKASIKDVL DSEGYLLFYHKQFLEYE

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FIGURE 4712A

GTGGTGTGCGGTGTCGGCAGCATCCCCGGCGCCCTGCTGCGGTGCGCGGAGCCTCGGCCTCTGTCTCCTCCCCTT
CCAGCCCTCACCTCCACGCGGGACCGCTCGCGCCAGTCAACTCCGCGCACGTTGCCCTGCTTGGCAGCCAATAA
AAGGGGGCTGAGGAAATACCGGACACGGTCACCCGTTGCCAGCTCTAGCCTTTAAATTCCCGGATCGGGCACCTC
CACGACCCGCGGCTAGCGCCGACACCCAGCTAGCGTGCAAGGCGCCGCGGCTCAGCGCGCACCGGCGGGCTTCGA
AATCGCAGTCTCCGGCGACCCGAACCTCGCCCCGGAGCCTCAGCCCCCTGGAAAGTGATCCTGGCATCCGAGAG
CCAAGATGCCGGCCCACTTGCTGCAGGACGATATCTCTAGCTCCTATAACCACCACCACCACCATTACAGCGC
CTCCTTCCAGGGTCCCGCAGAATGGAGGAGATAAGTTGGAGACGACGCCCCCTCTACTTGGAAGAAGACATTCGCC
CTGATATAAAAGATGATATATATAACCTCACCTACAAGGATAAGGAAGGCCCAAGCCCCAAGGTTGAATATGTCT
GGAGAAACATCATCCTTATGTCTCTGCTACACTTGGGCGCCCTGTATGGGATCACTTTGATTCTACCTGCAACT
TATACACCTGGCTTTGGGGGGTATTCTACTATTTTATCAGTGCCTTGGGCATAACAGCAGGAGCTCATCCTCTGT
GGAGCCACTGATCTTACAAAGCTCGGCTGTCCCTGTGGCTCTTTCTGATCATTGCCAACACAATGGCATTCCAGA
ATGATGTCTATGAATGGGCTCGCGACCACCGTGCCACCACAAGTTTTTCAGAAACACATGCTGATCCTCATAATT
CCTGACGTGGCTTTTTCTTCTCTCACGTGGGTTGGCTGCTTGTGCGAAACACCCAAGTGTCAAAGAGAAGGGCA
GTACGCTAGACTTGTCTGACCTAGAAGCCGAGAACTGGTGATGTTCCAGAGGAGGTACTACAAACCCGGCTTGC
TGTTGATGTGCTTCATCCTGCCCACGCTTGTGCCCTGGTGTCTTCTGGGGTGAAACTTTTCAAAACAGCGTGTTCG
TTGCCACTTTCTTGCGATATGCTGTGGTGCTTAATGCCACGTGGCTGGTGAACAGTGCTGCCCCACCTCTTCAGAT
ATCGTCTTATGACAAGAACATTAGCCTCCGGGAGAATATCCTGGTTTTACCTGGAGCTGTGGGTGAGGGCTTTC
ACAACTACCACCACTCCTTTCCCTATGACTACTCTGCCAGTGAGTACCGCTGGCACATCAACTTCACCACATTCT
TCATTGATTGCATGGCCGCCTTCGGTCTGGCCTACGACCAGAAGAAAGTCTCCAAGGCCGCATCTTGCCAGGA
TTAAAAGAACCAGGAGAGGGAACTACAAGAGTGGCTGAGTTTGGGGTCCCTCAGGTTCTTTCTTCAAAAGCCAGC
CAGGCAGAGGTTTTAATGTCTGTTTATTAATACTACTGAATAATGCTACCAGGATGCTAAAGATGATGATAACC
CATTCCAGTACAGTATTCTTTTAAATTCGAAAGTATTGAAAGCCAACAACCTCTGCCTTTATGATGCTAAACTGA
CATTATTTCTTCTCTTATCCTCTCTCTCTCTCTAGGCCATTGTCTCTCTTTTCACTTTGTGCTATCATCCTCT
TTCTCTTATTGCCACCCAGGCAAGCAGCTGGTCACTCTTTGTTCACTGTCCAGCTTCCAAGCCTAGACAACCTT
TCTGTAGCCTAAAACGAATGGTCTCTGCTCCAGATAACTCTCTTTCTTGAGCTGTTGTGAGCTTTGAAGTAGGT
GGCTTGAGCTAGAGATAAAACAGAATCTTCTGGGTAGTCCCTGTTAATTATCTTCAGCCAGGCTTTTGCTAGA
TGGAATGGAAAAGCAACTTCATTTGACACAAAGCTTCTAAAGCAGGTAAATTGTTGGGGGAGAGAGTTAGCATGT
ATGAATGTAAGGATGAGGGAAGCGAAGCAAGAGGAACCTCTTGCCATGATCAGACATGCAGCTGCCTACCTAGTG
AGGACTTCAAGCCCCACCACATAGCATGCTTCTCTTCTCTCTGCTTGGGTAAGAAGTGGCTGTGGTGTGTTGG
CAATGCTAATTCAATGCCGCAACATATAGTTTAGGCCAAGGATAAAGAAGAGACACTTTAAGTTTGTAGTAAAG
TGGTCTCTGCTGGGGAAGGGTTTTCTTTCTTTTTTTCTTTAATAACAAGGAGATTTCTTAGTTTCATGTATCAAG
AATTCTTGAAGTTGGGTGTTTCCATAATTGGTAAAAACAGCAGCTCACAGAATTTTGTAGTATTCCATGAGCTGCT
CATCACAGTTCTTTCTCTTTCTGCTCTGCCATCTTCAGGATATTGGTTGTTCCCTCATAGTAATAAGATGGCT
GTGGCATTTCGAACCATCCAAAAAAGGGAAGGATTTTAGGAGGTGGAGTCGGGTCAAACAAGAAATATATATAT
ACATATATACATTGCTTAGAACGTTAAACTATTAGAGTATTTCCCTCCCAAAGAGGGATGTTTGAAGAACTCTG
AAGGAGAGGAGGAATTAGTTGGGATGCCAATTTCTCTCCACTGCTGTACATGAGATGGGGAGGTTGAGGGACAG
GATCTATAGGCAGCTTCTAAGAGCAAACCTTCACACAGGAAGGGATCTGAGAACACATTGCCGGGGGCTTGAGAAG
GTTACTGAGTGAGTTATTGGGAGTCTTAATAAAATAAACTAGATATTAGGTCCATTCAATTAATTAGTTCCAGTTT
CTCCTTGAAATGAGTAAAAACTAGAAGGCTTCTCCACAGTGTTGTGCCCCCTTCACTCATTTTTTATTGGCGGG
GTGGGGGGCTCTGTTAACATCTAGCCTAAGTATAGAACTGCCTGGGGGGCAGGGTTAGGAATCTCTTCACTACCC
TGATTCTTGATTCTGCTTCTACCTGTCTGTCCCTTTCTTTTACTAGATCTTTCTCTTCCCTGAACGTTTTCT
TCTTTCCCTGGACAGGCAGCCTCCTTTGGGTGTATTAGAGGCAGTGATGACTTGCTGTCCAGGCAGCTCCCTCC
TGCAGACAGAATGCTCAGGGTCACTGAACCACTGCTTCTCTTCCGAAAGTAGAGCTAGCTGCCACTTTCGCATGG
CCTCCGGAGTGTCTCCACCTACACCTCTGTGCTCCCCGCCACACTGATGGCTCAAGACAAGGCTGGCAAACCTT
CCCAGAAATGTCTCTGGCCCAGAAAGCCTCTCTCTCCCTCCCTCTCTCATGAGGCACAGCCAAGCCAAGTGCTCA
TGAGCCAGTGGGCTGCCACAGAGCAAACGAGGGTTTTATTTTCACTCCCTCTCTCTGATCAGAACCAGAGAGC
ATGCTGAATGCCCCCTGTGCTGCTCGGTAAGGGTGCCCCACCTGAATCAGTGCTCTCAGCTGGCAGTGCAATGCT
TGTAAGTAGGAGGAAACAGTTCTCACTGGGAAGAAGCAAGGGCAAGAACCCAAGTGCCTCACCTCAAAAGGAG

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FIGURE 4712B

GCCCTGTTCCCTGGAGTCAGGGTGAAC TGCAAACCTTTGGCTGAGACCTGGGATTTGAGATACCACAAACCTGC
TGAACAGAGTGTCTGTTTCAGCAAAC TAACCAGCATTCCCTATAGCCTAGGGAATAGTATAGAAGTCTGGCAAAA
CAGAAACAGAACATCAGTGTTTTGAGAACCTTGGACTACTCCTGTCCCTGTAGCTCAGTCATCAAAGCAGAAGCC
TGGCTTTGCTCTATTAAGATTGGAAATGTACACTACCAAACACTCAGTCCACTGTTGAGCCCCAGTGCTGGAAGG
AAGGAGGGCCTTTCTTCCTGTGTTAATTGCATGGAGGCTACAGGGGTTAGCCTGGACTAAAGGCATCCTTGTGTT
TTGAGCTATTACCTCAGTAGAAAAGAATCTAAGGGAAGATCACTGTAGTTTTCCTGCTGTTGACCTGTGCACCTA
CCCCTTGGAAATGTCTGCTGTTATTTCTAATTCCACAGGTCATAAGATGCCTTCTTGATGATATATGAACGATAA
AAACAACCTTTCACTTCTTCCTATTGTAATCGTGTGCCATGGATCTGATCTGTACCATGACCCTACATAAGGCTGG
ATGGCACCTCAGGCTGAGGGCCCCAATGTATGTGTGGCTGTGGGTGTGGGTGTGGGTGTATCTGCTGAGTAAGG
AACACTATTCTCAAGATTCTAAAGCTCAATTCAAGTGACACATTAATGATAAACTCAGATCTGATCAAGAGTCTG
GATTTCTAACAGTCCCTTGCTTCGGGGCTGTGCTGGCAACTTAACTCGGGTGCCTTACATCTTTTCTAATCATAGT
GTTGCATATGAGCCTGCCCTCACTCCCTCTGTGGAATCCCTTTGCACCTGAGAGCCTACTGAAGTGGCTGGTAGA
AAAAGGGCCTGAGTGAAGGATTATCAGTATCGCGATTTCAGGATTCCCTTCTGGGCTTCATTCTGGAAACTTT
TGTTAGGGCTGCTTTTAAAGTGCCACATTTGATGGAGGGTGGAAAGTAATTTGAATGTATTTGATTTATATATATA
TATATTTTTTAAGGTTAAAAGATGGTTGTAGCATTTAAAATGGAAAATTTTCTCCTCGGTTTGCTAGTATCTTGGG
TGTATTCTCTCTAAGTGTAGCTCAAATAGGTCATCATGAAAGGTTAAAAAAGTGAGGTGGCCATGTTACGCTGGT
GGTTAAGGCCAGGGCCTCTCCTACCACTGTGCCACTGACTTGCTATGTCACCCTGGGCAAGTCACTTAAC TATAA
GGTGCCTCAGTTTTCTTCTGTTAAAATGGGGATAATAATACTGACCTACCTCAAAGGGCAGTTTTGAGGCGTGA
CTAATGCTTTTTAGAAAGCATTTTGGGATCCTTCAGCACAGGGATTCTCAAGACCTGAGTATTTTTTATAATAGC
AATGTCCACCATCAACTTGATATGTCCGTGTGTCCCAGATGCTGTCAATTAGTCTATATGGTTCTCCAAAAAATTG
AATGAATCCATTGGAGAAGCAGTGGATTAAGTAGCCAGACAAAATTTGAGAATGCATAAAAAACACATTGCCACG
GAAACATACAGAGGATGCCTTTTCTGTGATTGGGTGGGATTTTTTCCCTTTTTATGTGGGACATAGTAGTTACTT
GTGACAAGAATAATTTTGAATAATTTCTATTAAACATCAACTCTGAAGCTAATTGTACTAATCTGAGATTGTGTT
TGTTTTATAATAAAAGTGAAGTAATC

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FIGURE 4713

ACGGTCACCCGTTGCCAGCTCTAGCCTTTAAATTCCTCGGATCGGGCACCTCCACGCACCGCGGCTAGCGCCGACA
CCCAGCTAGCGTGCAAGGCGCCGCGGCTCAGCGCGCACCGGCGGGCTTCGAAATCGCAGTCCTCCGGCGACCCCG
AACTCCGCCCCGGAGCCTCAGCCCCCTGAAAAGTGATCCTGGCATCCGAGAGCCAAGATGCCGGCCCACTTGCTGC
AGGACGATATCTCTAGCTCCTATACCACCACCACCACCATTACAGCGCCTCCTTCCAGGGTCCCGCAGAATG
GAGGAGATAAGTTGGAGACGACGCCCCCTCTACTTGGAAGAAGACATTGCCCCTGATATAAAAGATGATATATATA
ACCTCACCTACAAGGATAAGGAAGGCCCAAGCCCCAAGGTTGAATATGTCTGGAGAAACATCATCCTTATGTCTC
TGCTACACTTGGGCGCCCTGTATGGGATCACTTTGATTCTTACCTGCAACTTATACACCTGGCTTTGGGGGGTAT
TCTACTATTTTATCAGTGCCCTGGGCATAACAGCAGGAGCTCATCCTCTGTGGAGCCACTGATCTTACAAAGCTC
GGCTGTCCCTGTGGCTCTTTCTGATCATTGCCAACACAATGGCATTCCAGAATGATGTCTATGAATGGGCTCGCG
ACCACCGTGCCACCACAAGTTTTTCAGAAACACATGCTGATCCTCATAATTCCTGACGTGGCTTTTTCTTCTCTC
ACGTGGGTTGGCTGCTTGTGCGCAAACACCCAAGTGTCAAAGAGAAGGGCAGTACGCTAGACTTGTCTGACCTAG
AAGCCGAGAACTGGTGATGTTCCAGAGGAGGTACTACAAACCCGGCTTGCTGTTGATGTGCTTCATCCTGCCCA
CGCTTGTGCCCTGGTGTTTTCTGGGGTGAAACTTTTCAAACAGCGTGTTTCGTTGCCACTTTCTTGCGATATGCTG
TGGTGCTTAATGCCACGTGGCTGGTGAAACAGTGCTGCCACCTCTTCAGATATCGTCCTTATGACAAGAACATTA
GCCTCCGGGAGAATATCCTGGTTTCACCTGGAGCTGTGGGTGAGGGCTTTCACAACTACCACCCTCCTTTCCCT
ATGACTACTCTGCCAGTGAGTACCGCTGGCACATCAACTTCACCACATTCTTCATTGATTGCATGGCCGCCTTCG
GTCTGGCCTACGACCAGAAGAAAGTCTCCAAGGCCGCCATCTTGCCAGGATTAAAAGAACCGGAGAGGGAACT
ACAAGAGTGGCTGAGTTTGGGGTCCCTCAGGTTCTTCTTCAAAGCCAGCCAGGCAGAGGTTTTAATGTCTGTT
TATTAAGTACTGAATAATGCTACCAGGATGCTAAAGATGATGATGATAACCCATTCCAGTACAGTATTCTTTTAA
AATTCGAAAGTATTGAAAGCC

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FIGURE 4714

CTTCCCTTTTGCGGCCATCACCGAAGCGGGAGCGGCCAAAATGAAGTTTAATCCCTTTGTGACTTCCGACCGAAG
CAAGAATCGCAAAGGCATTTCAATGCACCTTCCACATTGGAAGGAAGATTATGTCTTCCCTCTTTCCAAAGA
GCTGAGACAGAAGTACAACGTGCGATCCATGCCATCCGAAAGGATGATGAAGTTCAGGTGTACGTGGACACTA
TAAAGGTCAGCAAATTGGCAAAGTAGTCCAGGTTTACAGGAAGAAATATGTTATCTACATTGAACGGGTGCAGCG
GGAAAAGGCTAATGGCACAACTGTCCACGTAGGCATTACCCCAGCAAGGTGGTTATCACTAGGCTAAACTGGA
CAAAGACCGCAAAAAGATCCTCGAACGGAAAGCCAAATCTCGCCAAGTAGGAAAGGAAAAGGGCAAATACAAGGA
AGAAACCATTGAGAAGATGCAGGAATAAAGTAATCTTATATACAAGCTTTGATTAAACTTGAAACAAAGAAAA

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FIGURE 4715

MKFNPVFTSDRSKNRKRHFNAPSHIRRKIMSSPLSKELRQKYNVRSMP IRKDDEVQVVRGHYKGQQIGKVVQVYR
KKYVIYIERVQREKANGTTVHVGIHPSKVVITRLKLDKDRKKILERKAKSRQVGKEKGKYKEETIEKMQE

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FIGURE 4716A

GGAGAAGGCGGGCGGAAGTTCCACGCCAAGATACTGGATTCTGGTGTCTGAGGCGGCGGCTGCGGCACGGGAAAGGC
TCAGTGACTGAAGCTCCAAAGGCCAGCAGGCTGGTGGGGACGTGACCGAAGCGAGGCTCTGGTTCCCTTTTCGGTG
GGCGCCATTTGAGCCTCATCTCTGGCTTCCCCAGGATGCGCCGGCAGCCGGGGAGCGGCTCCGGGCGCGAGGTCT
GAGGATGATCTTTCTGTGCGCCGCTACGCGCTCCGGTGGCTGCGACGGCCCGAAGACCGTGCCTTTTCCGCGC
CGCCATGGAGATGGCCCTCCGAGGCGTGGGAAAGTCCTCTGTGTGGCCGAAAAAACGACGCGGCCAAGGGGAT
CGCCGACCTGCTGTCAAACGGTCGATGAGGCGGAGAGAAGGACTTTCAAATTCAACAAGATCTATGAATTTGA
TTATCATCTGTATGGCCAGAATGTTACCATGGTAATGACTTCAGTTTCTGGACATTTACTGGCTCATGATTTCCA
GATGCAGTTTGGAAAATGGCAGAGCTGCAACCCCTCTGTCTCTTTGAAGCAGAAATTGAAAAGTACTGCCCAGA
GAATTTTGTAGACATCAAGAAAACCTTTGGAACGAGAGACTCGCCAGTGCCAGGCTCTGGTGATCTGGACTGACTG
TGATAGAGAAGGCGAAAACATCGGGTTTGAGATTATCCACGTGTGTAAGGCTGTAAAGCCCAATCTGCAGGTGTT
GCGAGCCCGATTCTCTGAGATCAACCCCATGCCGTGAGGACAGCTTGTGAAAACCTGACCGAGCCTGATCAGAG
GGTGAGCGATGCTGTGGATGTGAGGCGAGGCTGGACCTGAGGATTGGAGCTGCCTTTACTAGGTTCCAGACCCCT
GCGGCTTCAGAGGATTTTCTGAGGTGCTGGCAGAGCAGCTCATCAGTTACGGCAGCTGCCAGTTCCCCACACT
GGGCTTTGTGGTGGAGCGGTTCAAAGCCATTGAGGCTTTTGTACCAGAAATCTTCCACAGAATTAAAGTAACTCA
TGACCACAAAGATGGTATCGTAGAATTCAACTGGAAAAGGCATCGACTCTTTAACCACACGGCTTGCCCTAGTTCT
CTATCAGTTGTGTGTGGAGGATCCCATGGCAACTGTGGTAGAGGTGAGATCTAAGCCCAAGAGCAAGTGGCGGCC
TCAAGCCTTGAGACTGTGGAGCTTGAGAAGCTGGCTTCTCGAAAGTTGAGAATAAATGCTAAAGAAACCATGAG
GATTGCTGAGAAGCTCTACACTCAAGGGTACATCAGCTATCCCCGAACAGAAACAACATTTTCCAGAGACTT
AAACCTGACGGTGTGGTGGAAACAGCAGACCCCCGATCCACGCTGGGGGGCCTTTGCCAGAGCATTCTAGAGCG
GGGTGGTCCACCCACGCAATGGGAACAAGTCTGACCAAGCTCACCTCCCATTCACCCACCAATAACACCAA
CAACTTACAGGGAGATGAACAGCGACTGTACGAGTTTATTGTTCGCCATTTCTGGCTTGTGCTCCCAGGATGC
TCAGGGGCGAGGAGACCACAGTGGAGATCGACATCGCTCAGGAACGCTTTGTGGCCCATGGCCTCATGATTCTGGC
CCGAAACTATCTGGATGTGTATCCATATGATCACTGGAGTGACAAGATCCTCCCTGTCTATGAGCAAGGATCCCA
CTTTCAGCCAGCACCCTGGAGATGGTGGACGGGGAGACCAGCCACCCAGCTGCTCACCAGGCGGACCTCAT
TGCCCTCATGGAGAAGCATGGCATTGGTACGGATGCCACTCATGCGGAGCACATCGAGACCATCAAAGCCCGGAT
GTACGTGGGCCTCACCCAGACAAGCGGTTCTCTCCCTGGGCACCTGGGCATGGGACTTGTGGAAGGTTATGATT
CATGGGCTATGAAATGTCTAAGCCTGACCTCCGGGCTGAACTGGAAGCTGATCTGAAGCTGATCTGTGATGGCAA
AAAGGACAAATTTGTGGTTCTAAGGCAGCAAGTGCAGAAATACAAGCAGGTTTTCATTGAAGCGGTGGCTAAAGC
AAAGAAATTGGACGAGGCCTTGCGCCAGTACTTTGGGAATGGGACAGAGTTGGCCCAGCAAGAAGATATCTACCC
AGCCATGCCAGAGCCCATCAGGAAGTGGCCACAGTGCAACAAGGACATGGTCTTAAAGACCAAGAAGAATGGCGG
GTTCTACCTCAGCTGCATGGGTTTCCAGAGTGTGCTCAGCTGTGTGGCTTCTGACTCGGTGCTGGAGGCCAG
CAGGGACAGCAGTGTGTGTCCAGTTTGTGAGCCACACCCCTGTGTACAGGTTAAAGTTAAAGTTTAAAGCGCGGTAG
CCTTCCCCGACCATGCCTCTGGAGTTTGTGTTGCTGCATCGGCGGATGCGACGACACCCCTGAGGGAGATCCTGGA
CCTGAGATTTTCAGGGGGCCCCCAGGGCTAGCCAGCCCTCTGGCCGCTGACAGGCTAACAGTCCCTGAACAG
GATGGACAACAGCCAGCACCCCCAGCCTGCTGACAGCAGACAGACTGGGTCTCAAAGGCTCTGGCCCAGACCCCT
CCCACCACCCACGGCTGCTGGTGAAGCAATTCTGTGACCTGCAACTGTGGCCAGGAGGCTGTGCTGCTCACTGT
CCGTAAGGAGGGCCCCAACCGGGGCCGGCAGTTCTTTAAGTGCAACGGAGGTAGCTGCAACTTCTTCTGTGGGC
AGACAGCCCCAATCCGGGAGCAGGAGGGCCTCTGCCTTGGCATATAGACCCCTGGGCGCCTCCCTGGGATGCCC
ACCAGGCCCAGGGATCCACCTAGGTGGGTTTGGCAACCCTGGTGATGGCAGTGGTAGTGGCACATCCTGCCTTTG
CAGCCAGCCCTCCGTACACGGACTGTGCAAGGATGGACCCAACAAGGGGCGCCAGTTCCACACATGTGCCAA
GCCGAGAGAGCAGCAGTGTGGCTTTTTCAGTGGGTGATGAGAACACCGCTCCAGGGACTTCTGGAGCCCCGTC
CTGGACAGGAGACAGAGGAAGAACCCTGGAGTCGGAAGCCAGAAGCAAAAGGCCCCGGGCCAGTTCTCTAGACAT
GGGGTCCACAGCAAAGAAACCCCGGAAATGCAGCCTTTGCCACCAGCCTGGACACACCCGTCCTTTTGTCTCA
GAACAGATGAGCTCAGGGTAGGGTAGAGAAGCCACTTTCTCAGACCTGTCCCCTTTGTGTTTAGAAATGAGTTA
ACCAGGACCAAGTGGCCATTTAGTGTCTGGAACTTAGAGGACAGTGTGGCCTTTGGAGTCGGGCCCTTCTGTG
GTTAAGGGGCACAAGGTCCAGATCACTCTGGAGCAGGCCAGCTCTGCTGGACAGTGACCCCTCTCCCAGGCCTCA
GGAGTGACCATAGCCACTGCTGAAAAGTCACGCAGCTGCTCCCTCGGACCCCCAAGGATGGTTGCTGTTAGCAG
AGGATTGGTGCAGTCCAGCTGAAGCCCACTGTGTGCCAAAGGAAGAAGCTCCCAGGGCTGCTTCTTCCACTGC

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FIGURE 4716B

AGAAAGCCCCAAGTGAGCCACCAGCACTCATGGGGCAGTCCCTGTCCAGGCTGCCAGGGCTTCTCATAGACGTC
CTGAGAAGGACGGTGTAATGCAAGGAAATGGCTGTGGTAACACTGATCCTTCAGAAGAAGCTTCATTCCCTCTTA
ATCTAGTTAAGCCAGGACATCCAGAATTCATTGCTTTAATAAAGAACCCAGGCCGGG

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FIGURE 4717

MIFPVARYALRWLRRPEDRAFSRAAMEMALRGVRKVLCAEKNDAAKGIADLLSNGRMRRREGLSKFNKIYEFDY
HLYGQNVMTVMVTSVSGHLLAHDFQMQRKWQSCNPLVLFEAETIEKYCPENFVDIKKTLERETROCCALVIWTDCCD
REGENIGFEIIHVCKAVKPNLQVLRARFSEITPHAVRTACENLTEPDQRVSDAVDVROELDIRIGAAFTRFQTLR
LQRIFFEVLAEQLISYGSCQFPPTLGFVVERFKAIQAFVPEIFHRIKVTHDHKDGIVEFNWKRHRLFNHTACLVLVY
QLCVEDPMATVVEVRSPKPSKWRPQALDTVELEKLASRKLRLINAKETMRIAELYTQGYISYPRTETNIFPRDLN
LTVLVEQQTPDPRWGAFQAQSILERGGPTPRNGNKSQAHPPIHPTKYTNNLQGDEQRLYEFIVRHFLACCSQDAQ
GQETTVEIDIAQERFVAHGLMILARNYLDVYPYDHWSDKILPVYEQGSHFQPSTVEMVDGETSPPKLLTEADLIA
LMEKHGIGTDATHAEHIETIKARMYVGLTPDKRFLPGHLGMGLVEGYDSMGYEMSKPDLRAELEADLKLI CDGKK
DKFVVLRRQQVQKYQVFI EAVAKAKKLDEALAQYFGNGTELAQQEDIYPAMPEPIRKCPQCNDKMDVLKTKKNGGF
YLSCMGFP ECRSAVWLPDSVLEASRDSSVCPVCQPHVPYRLKLKFKRGS LPPTMPLEFVCCIGGCDDTLREILD
RFSGGPPRASQPSGRLQANQSLNRMDNSQHPQPADSRQTGSSKALAQTLPPPTAAGESNSVTCNCGQEAVLLTVR
KEGPNRGRQFFKCNGGSCNFFLWADSPNPGAGGPPALAYRPLGASLGCPGPGIHLGGFGNPGDGS GSGTSC LCS
QPSVTRTVQKDGP NKGRQFHTCAKPREQQCGFFQWVDENTAPGTSGAPSWTGDRGRTLESEARSKRPRASSSDMG
STAKKPRKCSLCHQPGHTRPFQNR

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FIGURE 4718

GCCACTGCTGAAAAGTCACGCAGCTGCTCCCTCGGACCCCCCAAGGATGGTTGCTGTTAGCAGAGGATTGGTGCA
GTCCCAGCTGAAGCCCCTGTGTGCCAAAGGAAGAAGCTCCCAGGGCTGCTTCCTTCACCTGCAGAAAGCCCCAA
GTGAGCCACCAGCACTCATGGGGCAGTCCCTGTCCAGGCTGCCAGGGCTTCTCATAGACGTCCTGAGAAGGACG
GTGTAATGCAAGGAAATGGCTGTGGTAACACTGATCCTTCAGAAGAAGCTTCATTCCCTCTTAATCTAGTTAAGC
CAGGACATCCAGAATTCATTGCTTTAATAAAGAACCCAGGCCGGGTGCAGTGGCTCATGCCTGTAATCCCAGCAC
TTTGGGAGGCTGTGGGGGGCGGATTGCCTGAGCTCAGGAGTTCGAGACCAGCCAGGGCAACATGGTGAAACCCTG
TCTCTACTAAAATACAAAAAATTAGCCAGGTGTGGCGGTGTGCGCCTGTAGACCCGGCTACTCAGGAGGCTGAGG
TTGCAGTGAGCTGAGATCGGGCCATTGCACTCCAGCCTGGGCAAAAAGAGTGAAACTCTGTCTCAAGAAAAAAA
AAAAA

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FIGURE 4719A

CTAGCCCGGCGCGGCCCGGCAGCGAGAGCGGCGGCCATGGAGGCCACCGGGGTGCTGCCGTTCTGTGCGTGGCGTGG
ACCTCAGCGGCAACGACTTCAAGGGCGGCTACTTCCCTGAGAATGTCAAGGCCATGACCAGCCTGCGGTGGCTGA
AGCTGAACCGCACTGGCCTCTGCTACCTGCCCCGAGGAGCTGGCCGCCCTGCAGAACTGGAACACTTGTCTGTGA
GCCACAACAACCTGACCACGTTTCATGGGGAGCTGTCCAGCCTGCCATCGCTGCGCGCCATCGTGGCCCCGAGCCA
ACAGTCTGAAGAATTCCGGAGTCCCCGATGACATCTTCAAGCTAGATGATCTCTCAGTCTTGACTTGAGCCACA
ACCAGCTGACAGAGTCCCCGCGGGAGCTGGAGAACGCCAAGAATGCTGGTGTGTAACCTCAGCCACAACAGCA
TCGACACCATCCCCAACAGCTCTTCATCAACCTCACTGACCTACTATACTGGACCTCAGCGAGAACCGCCTGG
AGAGCCTGCCCCCGCAGATGCGCCGCTGGTGCACCTGCAGACGCTCGTGTCAATGGAAACCCCTGCTGCATG
CACAGCTCCGGCAGCTCCCAGCGATGACGGCCCTGCAGACCCTGCACCTGCGGAGCACCCAGCGCACCCAGAGCA
ACCTGCCCCACCAGCCTGGAGGGTCTGAGCAACCTCGCAGACGTGGATCTGTCTGCAATGACCTGACACGGGTGC
CCGAGTGTCTGTACACCTCCCCAGCCTGCGCCGCTCAACCTCAGCAGCAACCAGATCAGGAGCTGTCCCTGT
GCATAGACCAGTGGGTGCACGTGGAACTCTGAACCTGTCCCGAAATCAGCTCACCTCACTGCCCTCAGCCATTT
GCAAGCTGAGCAAGCTGAAGAAGCTGTACCTGAATTCCAACAAGCTGGACTTTGACGGGTGCCCTCAGGCATTG
GCAAGCTCACCAACCTGGAAGAGTTTCATGGCTGCCAACAACAACCTGGAGCTGGTCCCTGAAAGTCTCTGCAGGT
GCCCCAAGCTGAGGAACTTGTCTGAACAAGAACCACCTGGTGACCCTCCAGAAGCCATCCATTTCTGACGG
AGATCGAGGTCTGGATGTGCGGGAGAACCCCAACCTGGTCATGCCGCCAAGCCCGCAGACCGTGCCGCTGAGT
GGTACAACATCGACTTCTCGCTGCAGAACCAGCTGCGGCTAGCGGTGCTCTCTCTGCTACCGTGGCTGCAGCTG
CAGCTGCAGGGAGTGGGCCCCAAGGACCTTATGGCTCGCAAGATGCGACTGCGGAGGCGCAAGGATTCAGCCCAGG
ATGACCAGGCCAAGCAGGTGCTGAAGGGCATGTCAGATGTTGCCAGGAGAAGAACAAGCAGGAGGAGAGCG
CAGATGCCCCGGGCCCCCAGCGGGAAGGTGCGGCTGGGACCAGGGCCTGGAGAAGCCCCGCTTGACTACTCCG
AGTTCTTTCAGGAGGACGTGGGCCAGCTGCCCGACTGACCATCTGGCAGATAGAGAATTCGTGCCTGTGCTGG
TGGAGGAAGCCTTCCACGGCAAGTTCTACGAGGCTGACTGCTACATTGTGCTCAAGACCTTTCTGGATGACAGCG
GCTCCCTCAACTGGGAGATCTACTACTGGATTGGCGGGGAGGCCACACTCGACAAGAAAGCTTGCTCTGCCATCC
ACGCTGTCAACTTGCACAACCTACCTGGGTGCTGAGTGCCGCACGTGCCGGGAGGAGATGGGCGATGAGAGCGAGG
AGTTCTGTCAGGTGTTTGACAACGACATCTCCTACATTGAGGGTGAACAGCCAGTGGCTTCTACACTGTGGAAG
ACACACACTATGTCACCAGGATGTATCGTGTGTATGGGAAAAAGAACATCAAGTTGGAGCCTGTGCCCCCTCAAGG
GGACCTCTCTGGACCCAAGGTTTGTCTTCTGCTGGACCGAGGGCTAGACATCTACGTATGGCGGGGGGCCAGG
CCACACTGAGCAGCACCACCAAGGCCAGGCTCTTTCAGAGAAAAATTAACAAGAATGAGCGGAAAGGGAAGGCTG
AGATCACACTGCTGGTGCAGGGCCAGGAGCTCCAGAGTTCTGGGAGGCACTGGGTGGGGAGCCCTCTGAGATCA
AGAAGCACGTGCCTGAAGACTTCTGGCCGCCGAGCCCAAGCTGTACAAGGTGGGCTGGGCTTGGGCTACCTGG
AGCTGCCACAGATCAACTACAAGCTCTCCGTGGAACATAAGCAGCGTCCCAAGGTGGAGCTGATGCCAAGAATGC
GGCTGCTGCAGAGTCTGCTGGACACGCGCTGCGTGTACATTCTGGACTGTTGGTCCGACGTGTTTCATCTGGCTCG
GCCGCAAGTCCCCGCGCCTGGTGCAGCTGCCGCCCTCAAGCTGGGTGAGGCTGTGCGGGATGCTGCACCGGC
CACGCCATGCCACGGTCAGCCGACGCTCGAGGGCACCGAGGCGCAGGTGTTCAAGGCCAAGTTCAAGAATTGGG
ACGATGTGTTGACGGTGGACTACACACGCAATGCGGAGGCGCTGCTGCAGAGCCCGGTCTCTCCGGGAAGGTGA
AACGCGACGCCGAGAAGAAAGACCAGATGAAGGCTGACCTCACTGCGCTTTTCTGCGCGGCAGCCGCCATGT
CGCTGGCCGAGGCGGAGCAGCTGATGGAGGAGTGAACGAAGACCTAGACGGCATGGAGGGTTTCGTGCTGGAGG
GCAAGAAGTTTGCAGCGCTGCCGGAAGAGGAGTTTGGCCACTTCTACACGCAGGACTGCTACGTCTTCTCTGCA
GGTACTGGGTGCCTGTGGAGTACGAGGAGGAGGAAAAGAAGGAAGACAAGGAGGAGAAGGCCGAGGGCAAAGAAG
GCGAGGAAGCAACCCTGAGGCAGAGGAGAAGCAGCCAGAGGAGGACTTCCAGTGCACTGTTACTTCTGGCAGG
GCCGTGAAGCCTCCAATATGGGCTGGCTCACCTTACCTTACGCTGCAAAAGAAGTTTCAGAGCCTCTTCCCTG
GGAAGCTGGAGGTGGTACGCATGACGCAGCAGCAGGAGAACCCCAAGTTCTGTCTCCATTTCAAGAGGAAGTTCA
TCATCCACCGGGGCAAGAGGAAGGCGGTCCAGGGCGCCCAACAGCCAGCCTCTACCAGATCCGCACCAACGGCA
GCGCCCTCTGCACCCGGTGCATCCAGATCAACACCGACTCCAGCCTCTCAACTCCGAGTTCTGCTTCATCTCA
AGGTTCCCTTTGAGAGTGAGGACAACCAGGGCATCGTGTATGCCTGGGTGGGCGGGCATCAGACCTGACGAAG
CCAAGTTGGCAGAAGACATCCTGAACACCATGTTTGACACCTCCTACAGCAAGCAGGTTATCAACGAAGGTGAGG
AGCCTGAGAACTTCTTCTGGGTGGGCATTGGGGGCACAGAAGCCCTATGATGACGATGCCGAGTACATGAAACACA
CACGTCTCTTCCGGTGTCTCAACGAGAAGGGCTACTTTGCAGTGACTGAGAAATGCTCCGACTTTTGCCAAGATG

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FIGURE 4719B

ACCTGGCAGATGATGACATCATGTTGCTAGACAATGGCCAAGAGGTCTACATGTGGGTGGGGACCCAGACTAGCC
AGGTGGAGATCAAGCTGAGCCTGAAGGCCTGCCAGGTATATATCCAGCACATGCGGTCCAAGGAACATGAGCGGC
CGCGCCGGCTGCGCCTGGTCCGCAAGGGCAATGAGCAGCACGCCTTTACCCGCTGCTTCCACGCCTGGAGCGCCT
TCTGCAAGGCCCTGGCCTAAGACAGGCTGGCACAGCCCCAGGCTTGGTGAGGAAGAGGAAGGGGCCTCATCCACT
GTCTGCTAGCAAAGAATGTACTCAGGTGACACCACCTGCTCCAGCCACGTCCAGTGCCACAGTCCCCAGTAGCCT
CAAGCAGCACCAATGGGGATGACCCTGACAGGTGCCCTCAGGGGTCTGGGAAATCCAACCTCTCTCCACAGTGTGA
GTGCACGTGTGAAGCCCCCTCACTCTTCCGCTAGGGATAAAGCAGATGTGGATGCCCTTTAAGAGATATTAAATG
CTTTTATTTTCAATATT

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FIGURE 4720

MEATGVLPFVRGVDLSGNDFKGGYFPENVKAMTSLRWLKLNRGTGLCYLPEELAAALQKLEHLSVSHNNLTTLHGEL
SSLPSLRAIVARANSKNSGVPDDIFKLDDLSVLDLSHNQLTECPRELENAKNMLVLNLSHNSIDTIPNQLFINL
TDLLYLDLSENRLSLPPQMRRLVHLQTLVLNGNPLLHAQLRQLPAMTALQTLHLRSTQRTQSNLPTSLEGLSNL
ADVLDSCNDLTRVPECLYTLPSLRRLNLSSNQITELSLCIDQVHVETLNLNRNQLTSLPSAICKLSKLKKLYLN
SNKLDLFDGLPSGIGKLTNLEEFMAANNLELVPESLCRCPKLRKLVNKNHLVTLPEAIHFTEIEVLDVRENPN
LVMPPKPADRAAEWYNIDFSLQNQLRLAGASPATVAAAAAGSGPKDPMARKMRLRRRKDSAQDDQAKQVLKGMS
DVAQEKNNKQEEASADARAPSGKVRWDQGLEKPRLDYSEFFTEDVGQLPGLTIWQIENFVPELVVEEAFHGKFYEA
DCYIVLKTFLDDSGSLNWEIYYWIGGEATLDKKACSAIHAVNLRNYLGAECRTVREEMGDESEEFLLQVFDNDISY
IEGGTASGFYTVEDTHYVTRMYRVYGGKNIKLEPVPLKGTSLDPRFVFLLDRLDIYVWRGAQATLSSTTKARLF
AEKINKNERKGKAEITLLVQGOELPEFWEALGGEPSEIKKHVPEDFWPPQPKLYKVGLGLGYLELPQINYKLSVE
HKQRPKVELMPRMRLQLSLDTRCVYILDCWSDVFIWLGRKSPRLVRAAALKLGQELCGMLHRPRHATVSRSLG
TEAQVFKAQKFNWDDVLTVDYTRNAEAVLQSPGLSGKVKRDAEKKDQMKADLTALFLPRQPPMSLAEEAEQLMEEW
NEDLDGMEGFVLEGGKFARLPEEEFGHFYTQDCYVFLCRYWVPVEYEEEEKKEDKEEKAEGKEGEEATAEAEKQ
PEEDFQCIVYFWQGREASNMGWLTFTFSLQKKFESLFPGLKLEVRMTQQQENPKFLSHFKRKFIIHRGKRKAVQG
AQQPSLYQIRNGSALCTRCIQINTDSSLNSEFCFILKVPFESEDNQGIVYAWVGRASDPDEAKLAEDILNTMF
DTSYSKQVINEGEEPENFFWVGIGAQKPYDDDAEYMKHTRLFRCSNEKGYFAVTEKCSDFCQDDLADDDIMLLDN
GQEVYMWVGTQTSQVEIKLSLKACQVYIQHMRSKEHERPRRLRLVRKGNEQHAFTRCFHAWSAFCKALA

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FIGURE 4721A

AGACTGTGGAGCATGGCTTCCCCAATCAGCCCAGCGCCCTGGCCTTCGACCCGGAACCTTCGCATCATGGCCATCG
GCACCAGGTCTGGGGCTGTCAAGATCTATGGTGACCTGGCGTGGAGTTCACAGGCCTGCACCGGGATGCAGCCA
CTGTACACAGATGCACTTCTTGACCGGCCAGGGCCGCTCCTGTCCCTGCTTGATGACAGCAGTCTGCATCTCT
GGGAGATTGTCCACCATAATGGCTGTGCCCACCTGGAAGAAGCACTCAGTTTCCAGCTGCCAGCCGGCCCCGGCT
TTGATGGTGCCAGTGTCTCCGCTCAGCCTTACCCGAGTCACAGTGGTCCCTGCTGGTGGCTGCCGGCGACATAGCAG
CCCTGGGCACTGAGGGCAGCAGTGTCTTCTTCTGATGTTACCACCTGACCCTGCTCGAGGGGCAGACGCTTG
CCCCAGGCGAGGTTCTGCGCAGCGTGCCAGACGACTACCGCTGTGGGAAGGCACTGGGCCCCGTGGAGTCACTCC
AGGGACACCTGCGGGACCCACAAAGATTCTCATTGGCTACAGCCGGGGCCTGCTGGTCACTCTGGAACCAGGCCT
CGCAGTGTGTGGACCACATCTTCTGGGGAACCAGCAGCTGGAGAGCCTATGCTGGGGGCGTGATAGCAGCACTG
TGGTCAGCTCACACAGCGATGGCAGCTATGCTGTCTGGTCTGTGGATGCCGGCAGCTTCCCAACGCTGCAGCCCA
CGGTAGCCACCACACCTTACGGCCCCCTTTCCCTGCAAGGCCATTAAACAAGATTCTGTGGCGGAACCTGTGAATCTG
GGGGCCACTTTATCATCTTCAGCGGTGGCATGCCCCGTGCCAGCTATGGTGACCGCCACTGTGTAAGTGTGCTTC
GAGCCGAGACATTGGTGACGCTGGACTTCACTTCCCGCATCATCGACTTCTTACAGTGCACAGCACACGGCCCCG
AGGATGAATTTGATGACCCCCAGGCCCTGGCTGTGCTGCTGGAAGAGGAGCTGGTGGTGTGAGCCTGCAGACTC
CTGGCTGGCCAGCTGTGCCTGCCCCATACCTGGCCCCGCTGCACTCCTCTGCAATCACTTGCTCGGCCACGTGG
CCAGTGTCCCCGCCAAGCTGTGGGCCCCGATTGTGAGCGCTGGCGAGCAGCAGAGCCCCAGCCTGTCTCCAGTG
CCTTGAGCTGGCCCATCACTGGGGGCCGAAACCTGGCCCAGGAGCCGTCACAGCGAGGGCTGCTGCTGACGGGCC
ATGAGGACGGCACCGTGAGGTTCTGGGATGCCTCGGGTGTGGCGCTGCGGCCGCTCTATAAGCTGAGCACAGCTG
GCCTCTTCCAGACAGACTGTGAGCACGCTGACAGCCTGGCCCAGGCTGCCGAGGACGACTGGCCACCCTTCCGCA
AGGTGGGCTGCTTCGATCCCTACAGTGACGATCCCCGGCTTGGCGTGCAAGGTTGCTCTCTGCAAGTATACAG
CCCAGATGGTGGTGGCTGGCACTGCAGGCCAGGTGCTGGTACTGGAGCTTAGTGATGTGCCGGTGGAGCAGGCGG
TCAGCGTGGCCATCATAGACCTCCTCCAGGACCGCGAGGGCTTCACATGGAAGGGCCACGAGCGGCTGAGCCAC
GCACGGGGCCGCTGCCCTGGCCTGCTGGCTTCCAGCCCCGTGTCTGGTGCAGTGCCTGCCGCCAGCTGCTGTAA
CCGCTGTACACTCCACACCGAGTGGAGCCTCGTGGCTTTTGGCACCAGTCATGGCTTTGGCCTCTTCGACTACC
AGCGCAAGAGCCCTGTGCTGGCCAGGTGCACTCTTACCCCCAATGACTCCCTGGCCATGGAGGGTCCGCTCTCCC
GGGTGAAGTCTCTCAAGAAGTCACTGCGCCAGTCTTTCCGGCGCATTGCAAGAGTCGTGTCTCTGGCAAGAAGC
GGGCTGCTAATGCCAGCAGCAAGGAAGCCAATGCACAGCTGGCTGAGCAGGCCTGCCCCACGACGTGGAGATGA
CGCCCGTGCAGCGCCGATTGAGCCCCGCTCTGCCGATGACTCCTTGTGCGGTGTGCTGCGTTGCCATATACTTTG
CCGACACATTCTTCGAGATGGGGCCCCACCAGGGCCCCACCATGTGGGCTGGCACCAACTCAGGCTCTGTGTTCCG
CCTATGCACTGGAGGTGCCGGCAGCAGCAGTGGGTGGTGAGAAGCGGCCCTGAGCAAGCGGTGGAGGCCGTGCTGG
GCAAGGAGGTGCAGCTGATGCACGGGCGCCTGTGGTGGCCATTGCCGTGTGGACGGGCGTGGCCGCCCACTGC
CCGAGCCCTACGAGGCCTCACGGGACCTGGCGCAGGCACCTGACATGCAGGTGGTACGCTGTGCTCATCGCAT
CTGAGGAGCAGTTCAAGGTGTTCACTGCCCCAAGGTGAGCGCGAAGACCAAGTTCAAGCTGACGGCCCATGAGG
GCTGTGCTGTGCGCAAGGTGGCACTGGCCACGTTTGCCAGTGTGGCTGCGAGGACTATGCTGAGACCTGCCTGG
CCTGCCCTACCAACCTGGGTGACGTCCACGCTCTTCTCGGTGCCCTGGCCTGCGGCCCCAGGTGCACTATTCTGCA
TCCGGAAGGAGGACATCAGCGGCATCGCTTCTGTCGCTCTTTACGCGCCATGGCCAGGGCTTTTACCTGATATCCC
CATCAGAATTTGAACGCTTCTCCCTAAGTGCCCGGAACATCACAGAGCCGCTCTGCTCTCTGGACATTAACCTGGC
CCCGCATGCCACCCAGGCCAGTTACAGGATCCGAGAGTCACCCAAGCTGAGCCAGGCTAACGGGACCCCAAGCA
TCCTGTGCCCCACAGAGCCTTGATGGAAGCCCTGATCCAGCCCACAGCATGGGACCTGACACCCCGGAGCCAC
CCGAGGCTGCACTCTCACCCTATGTCATCGACTCAGCCACCAAGTGTGACACCACGCTGGACACGACAGGGGACG
TCACAGTGGAAGATGTGAAGGATTTCTGGGCTCCTCTGAGGAGTCAGAGAAGAACCTGAGGAACCTGGCAGAAG
ACGAGGCCACGCTGTGCCATCCTGATCAAATGAGGAAGGCCAGAACTATCCCGACCTCCACCTGCCCTGCTCG
GAGCTGGAGTGTGATCCCTGGCACCTGCCTGGCCCCCTTAACATAGAACCACGCCTGCTAACCTGTAGGCTCCA
CTGGGACCTGCTGTCTGTCCCGCTGACCCTGGGGCCCTGGAGCAGCACCAGCCCCAGGGTGTGGGCTGGGACC
TGGGCCAAGAACTGAGCCCTCCTGCAGGCATTTGGCTGCCCTGGGGGCCCACTGCCTAGGGAAGAGGACAGGTGGG
GCCAGCACCTGTGCCACCTCCCCCCTCCACACACCATCCTTCCCCCTCACTTTGCAGAGTATTTTTCTTTTTT
TTTTTTTTTTCTTAAAGACGGAGTCTTGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCCCCATCTCTGCTCACTGCA
AGCCCCGCTTCTGGGTTCGCCCATCTTCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCGCCACCACC

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FIGURE 4721B

ACGCCAGCTAATTTTTCTGTATTTTAGTAGAGATGGGGTTTCACCATGTTAGCCAGGATGGTCTCG

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FIGURE 4722

MMKFRFRROGADPQREKLKQELFAFNKTVEHGFNPQSALAFDPELRIMAIGTRSGAVKIYGAPGVEFTGLHRDA
ATVTQMHF LTGQGRLLSLDDSSLHLWEIVHHNGCAHLEELSFQLPSRPGFDGASAPLSLTRVTVVLLVAASDI
AALGTEGSSVFFLDVTTLTLEGGQTLAPGEVLRSPDDYRCGKALGPVESLQGHRLDPTKILIGYSRGLLVIWNQ
ASQCVDHIFLGNQQLESICWGRDSSSTVSSHSDGSYAVWSVDAGSFPTLQPTVATTPYGFFPCKAINKILWRNCE
SGGHFIIFSGGMPRASYGDRHCVSVLRAETLVTLDFTSRIIDFFT VHSTRPEDEFDDPQALAVLLEELVVLDLQ
TPGWPAVPAPYLAPLHSSAITCSAHVASVPAKLWARIVSAGEQQSPQPVSSALS WPITGGRNLAQEPSQRGLLLT
GHEDGTVRFWDASGVALRPLYKLSTAGLFQTDCEHADSLAQAAEDDWPPFRKVGCFDPYSDDPRLGVQKVALCKY
TAQMVVAGTAGQVLVLELSDVPVEQAVSVAIIDLLQDREGFTWKGHERLSRPTGPLPWPAGFQPRVLVQCLPPAA
VTAVTLHTEWSLVAFGTSHGFGLEDYQRKSPVLARCTLHPNDSLAMEGPLSRVKSLLKSLRQSFRIRKSRVSGK
KRAANASSKEANAQLAEQACPHDVEMTPVQRRIEPRSADDSLSGVVRCLYFADTFLRDGAHHGPTMWAGTNSGSV
FAYALEVPAAAVGGEKRPEQAVEAVLGKEVQLMHRAPVVAIAVL DGRGRPLPEPYEASRD LAQAPDMQGGHAVLI
ASEEQFKVFTLPKVSATKFKLTAHEGCRVRKVALATFASVACEDYAETCLACL TNLGDVHVF SVPGLRPQVHYS
CIRKEDISGIASCVFTRHGQGFYLISPSEFERFSLSARNITEPLCSLDINWPRDATQASYRIRES PKLSQANGTP
SILLAPQSLDGSPDPAHSMGPDTPPEPPEAALSPMSIDSATSADTTLDTTGDVTVEDVKDFLGSSESEKNLRNLA
EDEAHACAILIK

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FIGURE 4723A

GAGGATGCAGAGTGGGAGACCTTAAACCGTCTGATCTGGCTGCTAAAGCGAGTGTCTGACGACCACCCATTAAAC
ACCAGCGAGTAGCGTTTGTCTACGGCTTTAGGATAAGAAGCCTGGAATGGTCCCCCTCCGCCGGGAGAAGAAAG
CCAGACGGTCACTCTTCCACCTGGCTGGCAGAGCTACCTGTTCGCTCAGGGCCGGCGGTACTATGTCAACACGAC
CACCAATGAGACCACCTGGGAACGTCCAGCAGTTCTCTGGGATTCCAGCCAGCCCTGGCTCTCAGAGGAGCTC
TCTGCCTCCAACAGTGAATGGATACCACGCATCAGGGACCCAGCGCACCCCTCCAGAGACTGCCACATGAGTGT
CCGAAAAATCCACCGGTGATTCCCAGAACCTGGGATCCTCATCGCCAAGCAAAAAGCAGAGCAAGGAAAACACCAT
CACAATAAACTGTGTGACGTTCCCTCACCCAGACACGATGCCGGAACAGCAGCTGCTGAAACCAACCGAGTGGAG
CTACTGCGACTACTTCTGGGCTGATAAGAAGGACCCCCAAGGCAACGGCACCGTGGCTGGGTTTGAAGTACTGCT
CCAGAAAACAGCTGAAGGGCAAACAAATGCAGAAGGAAATGTCAGAATTATCCGGGAAAGGATAAAGATTGAAGA
AGACTATGCGAAGAAGCTTAGCTAAGCTCTCTCAGAACTCCTTGGCTTCACAGGAGGAAGGCTCCTTGGGAGAGGC
GTGGGCCCAGGTGAAGAAGAGCCTGGCGGACGAAGCAGAAGTTACCTCAAGTTCTCTGCCAAGCTTCACAGCGA
GGTGGAGAAGCCCCTGATGAAGTTCGTGAGAAGTTCAAGAAAGACATGAAGAAGTGCACCACCATTTGCCGA
CCTTCGCAAGCAGCTCGCCAGCCGCTATGCCTCGGTGGAGAAGGCCCGAAAGCCCTCACAGAGCGGCAGAGAGA
CCTGGAGATGAAGACCCAGCAGCTGGAGATCAAGCTGAGCAACAAGACAGAGGAGGACATCAAGAAGGCGCGGAG
AAAGTCCACACAGGCTGGAGACGACCTCATGCGCTGTGTGGATCTCTACAACCAGGCCAGTCCAAATGGTTTGA
AGAGATGGTGACCACCACATTGGAGCTAGAGCGGCTGGAGGTGGAGAGGGTAGAGATGATCCGGCAGCACCTGTG
CCAGTACACGCAGCTGCGGCATGAAACAGACATGTTCAACCAAAGCACAGTCGAGCCCCTGGATCAGCTGCTTCG
AAAAGTGGACCCGGCCAAAGACAGGGAGCTGTGGGTGAGAGAGCAAGACGGGCAACATCCGCCCTGTGGACAT
GGAGATCTAGATGGGCTGTGCAGCTTCGGGGGGTCTGTGGGXGAXXGGGGGGXCTGGGCTCCACCATGGG
GCCCATGCCGAGTGGATGCCCCCACCCTCTCTCTGGGCCACTGAGGAGAGGGGAGAGAGCTGGTGATTCCAGA
AGGGTGACCCGGACAGCCTAGCTGGGGGTCCCCATATTCCCAGGCCCAGAAAGACAGACCCACAGCCCTGCCCT
TGTCTCTGAGGCTGAAGACCCCTGACTCCCATGCTGTGCTTGGCGCTCTGAAACAAACAGAGGCTGGAAGTTTG
TGGTCTTGCCGAGTTTTGTAGGGGTCACTGTACATGCTTGTGCCCTGGAAGCCCCAAGGCTCTTCTCCAGCT
GGCTCCCTTGTCTCCAGGGCTTTGGAGGATCAGGGTAGGGAGGGCTCTGTCTCTAAGCCAGGTGTCAGGATCAGA
ATCATGGGTAGAAGGTGCCATTACAGCTCACAGCCGCACCCAGAATCCTTTGCAGCCCTCCTTCTTTATTTTTTTC
CCATTGCATTCTGGGAGTCCACATCTGGCTTTCTCAGCCACTGTTTCATCACCAGGGGTTTTAGGAGGAAGGCTTG
GCTCCTGTCTTCCCAGACCCACCATGCCTGGAGAGGTGAGGATGGAAGTACCTCATTCGGCAAATTAGCCCCAAA
TTGAGCGCTGAATCGTGTCCCATGAGATCAGGCGCCATCTGTAAAGTCTCCTCTGGAAATGCCAATCCATCCTTC
CCCCAGCTGCTTCTCGGGGAGGCCCTGCCCCCACCCTGCCAGCCCTTCCCAGTCTCATTAGAGGAAGCTTTCC
AAAAGTTCTCAGTTATCAAGACCTCATCCAGCTCGTCCAAAGGCTTCAGGGATGGAACAAACCAGCTCGTCTCAG
AGGCCAGCAAGCTGGGGCTGTCCGCCACGGTGCCTGTGCACCTTTGGGCTGCCCTGGCCCCACTCTCCCGGG
CCGCCCCACCACAGGCTCTTAATGGGGCCGGGTGAGTCTTACATGTGAGATGGGTAGGGCAAGTCTTTGCCATCC
CCCAGATGGCTCTGTCTTCTTGTGTATGGCAGGGCTGGGACTGCTGTCCCTTGTACAGTTTTCTGTCACTGGTGG
GCACTGGACAGGCATAGCAGACTCTCTTGTGGCCACACTAGGTTGTGCCTTTCAGGCAGTGTCCCGCCACCTTT
GCTTCCCGCTCCTTCTGGACATTCAGAGCCCTGCACCAAACCTTACTTGGTGTCTGCACCTCCTTTCCCTCTC
TCCATCTTCCAATCCCTGGAAAAGTCTGGTCTGAGTGTGACTTGGGAAGCTTTCAGTGTCTGTGTTGGCCCAGC
TCATTACTTTCTCCCTTTCTCTACCACAGCAAACACATTCTCCACCATGTGAGTCTAAAGAGTCTAAAGGGGCCG
GGAGAAGCATGAGCGAGGGGCAGATTCTAGTCGGGAGCCCATGCCCTGGAAATCCATCTTTCTTCATCTTTCCCA
TTGACCACTTTGGGTTTGACCTGCACATCTGCAGTGAGGGCAGAATTCAACAAGCACAACTCACTGGTCTTTTCAG
TCAACGTGCTAGAAACCGATGACTTATTAATCTCTAATTTTTTGGCGCTCTTTCATTGAATGAGAATTGCTTTC
GTATAGTTACATTAGAAAAATGCCTAATACTAAAGTAAACCAAACGTTGTCACTTTTCTCTTGTCTTGTAA
CATTGCAACCAAAAAGGTCAGCACAAAGGCCCTTACCTACGTGAAGACCTCCTGGTAGGATCTGTCCATGGGATG
GAGAACCACCTCTGTCCAGATCTGGGGTTGGGTGATGACACCAGCTACCAATTTTAGAATATTATTTCTTGGTTTC
TTTATGAAAAATGGGTGCTAGTGGTAATTGCTTTGTGGCTTAGTAACTACTCTGTGGATGATTTCCAAACATTC
AAAGCCAATAGCCTTGTATTAAACAAGATATTTTGTAGTACAATATGGCTCATTGACTTTTCCATTACATCTGAGG
ATTCCAGAGTCTCTGTTTCATCCCTGGGATAGAGTGAGCCCTCTTGCCTCTTCCAGGGTAGCTCAGGTTGGCCCA
GTTTGGGCCAGTCCATTTTGGAGGTCACTCTTTCCCCCTCATCCCTCACCTCCTTCTTTACCCCTTCAC
GTACTTCTTTCTTTCTTCCCTCTGTTATTTCATTCATCAAGCAGGTTAAAGCCATTGTGCTAAGATCTAATCTGA

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FIGURE 4723B

GGACACTATAATGGCCCTGTCGTCAGGGAAGCCCGTGATCGCTCGTTTTTCAGGGGTCTTACCGGTCAGCAACCTT
GGCATTGATACATAGGCACTCTACAGAATTTAAGTTTTTCAGAGGTAAGTCTGTTGTTCTGATTAATCTGCATTCA
TTCAGCGAATGCTCAAGACAAGCCAGGCATGCTGAGAAGCGGCGCTCTAGTTGTATGTAAGATGGGCATTCTCT
GCTCTCCTCTATTCTCCATGTCGACTGAGAAGAGTATAATAAGAACATTGTACCCCTCTCCACACTTAACCCTCTG
GGATTCTTTATTATAATATAAAACCACCGTCGTGAGGCATTTACCTGTTGGATGGAAGGTAGACAGCAACAAGATT
TTAATCACCTGGTCACCAGACCCTCACGGCCCATATCCAATTCGAATTTCAGAAATTTCTCTGTTTGCTTTAAAT
AACTCTTTACAAATAAGGGTCGGGCACGGTGGCTCACGCCTGTAATCCCAGCTCTTTGGGAGGCCGAGGTGGGCA
GATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACATGGTGAAACCCCGTCTCTGCTAAAAATACAAAAAT
TAGCCAGATGTGGTGGTGACACCTGTAGTCCCAACTATTCCGGCAGGCTGAGGCAGTAGAATCGCTTGAACCTGG
GAGGCGGAGATTGCAGTGAACCAAGATCGGGCCACTGCACTCCAGCTTGGGTGACAGAGCAAGACTCCATCTCAA
AAAAATTATAAAATAACTCTTTGCAAATAGGAAAGTGAAGCTCAAGGGTAACCAGTGAGGCTATGAAATTGCCAGT
GAATTAAGACCAGGGCTAGAGTCAACAGTCCAGAACCCCTATCCGTATGAACAGGGGCCCGTTTCTGGTTGAAAT
CAAGGTTAGGATGCAACTGAGAAAATAAAAGACTGCACTTTGGAGAGGCAAGCACGCTATCCGGGTTGTTGTTTT
GTTTTATGCTTTGGTGCTTAGGTGAGGACTTAGCTGGGTTTATTCAAAGTGGGCGGGTCTGGGCTATTCTTGAGA
ATGTCCCTTCCATTTCTGAGAACAAGTCAGCCCTTCTACCTGCCTCCACCCAGGAGACTGATGCACAAGATCTG
TTTGTGAAAGCCTGATTTAAAAAGAAAAAAATTCCTTAAGCCAAATGGTGTTCGAAGTTGGTTGCTGTGACA
ACCTCCAGGAAGAGCCACTTGTACCCTCTATTCTTTCTAGTGCTTTTCAGTCAGTGGAACACATAGGCCCTTG
GACCGTGGGGATGGCGGCCCTGAGATTCTGTAGTGAGGACCACCTGGGCCTCCTTTCTACCTCCACTCAGCACC
CTGTTGGCCAAGGAGAATTTCTGCGGTGGGAGGCAGTGCTCTGCTAGTCAGGATTGATAAACAGCTGGGCACACC
GAAACAGTGTACCAACGAATTCACCAACCAGGGGTTTCTTTCCCTACCCTTTGTGAAAACCAATCAATTACTAGA
TGAGTGGATGGATGCAGAAAAATCTGGGCTGAGCCAAAGTCCCTTTTGAAATACAAGCCATAACATTCGAAGGA
CATCAGCGACCTTGGCTTGTTFAGGTGATTTTACTTCCAGCTGCAGGTAGTCTTGACAAGGAGTGTTTAAACAGA
AGGCTCAAGATGCATTCTTGTGTAGGTGCGAGAGAGCACTTCTAATGTTAAGTGGGGTACAGATCAGCTGCCCC
CCCACGTAGCCTGGACATCGTCTTATCCCCATAATCCTTGCCATCCCTACAAGGCCCATCGCCACCACCTTTTCC
CAGGTTTTATTGAGGTATGATTGACATCCAGTAAATTCACCCTTTGGAATATACAGCTCTGTGAATTTTGACAA
ATTTAGTGTCTTGTGACCATCACCAAGATCAACCTGTTTTTAACCCTCCAAAAAATTCCCTTCTCCTGCCCTCTT
TCCCTGGCAACCCTGATTGATTATCTGATCCTATAATTTGCCTTTTCTAGAATGTCATATAAATGGAGTCACAC
TGATGTCGCCTTTTGAGTCTGGCATCTTTCCCTCAGCTTAATGCTTTTGAGTCATTATGATGTGTGCGTGTGGT
TTGTTCTTCTCCTTGCCGGGAAGTATTTCAATTGCATGGGCGTACTACTCTGCTTCTTTATTTTTTACACTGAGCC
TTTCGCCCTGGAAGTTCTTGGCCAGGGTCTTCAACTTGTTTGCACGACCACTTCCAGCTTGCTGCTTCTCTCAG
TTCCCCAGGCTCCTCCTCCAAATGCCAGCTGTGCCCCACAAGCTGTTCTTAGGGCTCACACTCGCCTTTTGGCGCG
TGGTGGGTTTTTGGTAGTGCAAGAAATCCAGGGATGGGAGGGGAAGGGACGGATGGGTGCTCAATTGCTGCTC
ACGCTGCTGCAACCTGAAGCTTGCATCTCAGCCAGCAGATCTGCTCCCTTCTGGGACCCAGGCTTCAGTGTCAC
ACGGTCTTGGCTATGTATTGGGCGTTGGAGGCTTTGAAAGGCGAGCAGAAGCAGCATGGACAAGAAGGCTGGGG
CTGGCCCTGGGGCTCATCATGATGCTTTCCCTGGATCTGTTGCTTCATCTGCAAGCTGAGGGTGTGTTGTTCTAGAT
GAGTGTCTCAGGCCACCGGCAACTGCATGTACCTCCTCCCTTCTCATTTCCAATGATGTACCCTGTACACGTGT
TCATGCTGTGTCTGGCTCTCATCTGCACAATCGTGATAGAAATGCCTCAAGTCCCTGGTGAGAGAGATGCCGTGG
TACTTTTCCATTTAGATTCAAATGGAGCTAAATTAAGAGTTTTATGAGCTGTTAAGAATGAGGTAGTTTCTCCT
AGGACCCCCCAAAGACAGTGCAAGTAATGACCGTTTGGATCTCATTCGTCGATCTTTGATAGTATGTTCTGGAGT
CTACTCCCCAGGAGCCAGGACAGGCGTGAAGATGGAGTCTTGTGCGAGCTGGAGCCTTGCCCTAGCTGGTGATCA
CACAGCCTGGCCTGTACCTGCACCCCACTGGATGGTGGTACATGGTGGCAGGGACAGGACCACACCCAGTTAAGG
CCAGACCAGGCTGAGTGTGACCCCTGAGGTAAACACTCCACTAAGCTGTGTCTTGTTCATGCCCCCTGCTCAGTG
AAAGGTGAGTCCCAGACAGTTGGGTACCTCTCTATGCGAACCAGAGACATTTCTGGATCCAGGCCAGGTGAAG
ATTAGGGCCAGGAAGCCTGAGCCCCGGGGCTCAAGGTAGGGAGCCGAAGAGGCTGCCAGGACTCTGCTGGGTT
GAAATTTGCCGGGGAGGACTCTTGTCTCCCCCTCAGGAGTATTTTTGTTGAGGCTTTCTGGAGGTGAAGAAGCA
ATTCCCATTCGACAGGTTAGAGCGAGAATCAGACAGAGGGCAAAAACCAATTCGCTTCTCCCCACGTTCTAAAT
GCTGGGGCATGGCTGTGAGGAGGCTTCTGGGAGGTGTCTCTGGGGGTGGGGTGAGGTGGGGCGATGGCCTTT
GGAGATTGCGTGTGGTGTTCAGGACTGTTCTTGGTGTGTTGAGGGAACTTTAGTGGGATTGCAGTGGAATGTAA

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FIGURE 4723C

GGTCAGGGCACGTGGGTGCTCTCTCGGGGTGGGGTGA CTGGGAGACCTAGAGGGAAAGCCTGCTATGCAGGGGGA
GAGCACAGGACTGGCCCTGCTCTGCGGCCTCCTTTGTCCCATAACCTGAAGTTAAGTCACATCCCCTGTCGGGAC
CTCCGTGCACTCATCTGTCAAGTGGGGGCGCTTCCCTTCCAGCATCACCTGCAGCAGACGGGCTCTCGGGAGTCG
TGGGTTCCAGGCAGCTGTGTGGACCCAGGGACAGACATTCAAAGGGACGCCAGCCATCCTTAGTGACAGGGGGCCC
CAACTTAGCATCCCTTCCCTTCCGTTAGGAAGGAGATGACCGGAAGCAACCCCTTCACAGACACGAGCACATCGG
CAAACCCATGAAAGTGGAATTTCTAACAAAATAAACTTGCTTGTTTGATCTGTTTTCTGTAACTTTTTGCTAAA
TACTTTATACATTTTTCATGTTAAAGAGCCGTGTCTCCCGCCAGCACTCCTCACCCCGGTATGAATGTGTTTCCT
CCACATTGTATATCCTTCCACCCCTCTGGCTGCCTAGATCAGTAAATAAAATTGATGTAATATAATTTATAAGTAA
CACTGTTGAAACCCTGATCCCAGTGGAGGCTGTAACCCACCTGCCCCCGCACCAACCCCCCTGACCCCTGTTACCG
CATTTGTGTGTATTAATGCTGAAGAATTAAATGTTTAAAGAGTTTAAATTTTGAAGGCGTTTGCTATATACAGTT
GTCCTGCATTATTATAAAGAGTTTTTCAGGAAGTT

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FIGURE 4724

TCTTCCACAGGAGGCCTACACGCCGCCGCTTGTGCTGCTGCCATGTCTCTAGTGATCCCTGAAAAGTTCCAGCAT
ATTTTGCAGTACTCAACACCAACATCGATGGGCGGTGGAAAATAGCCTTTGCCATCACTGCCATTAAGGGTGTG
GGCCGAAGATATGCTCATGTGGTATTGAGGAAAGCAGACATTGACCTCACCAAGAGGGCGGGAGAGCTCATTGAG
GATGAGGTGGAACGTGTGGTCACCATTATGCAGAATCCACGCCAGTACAAGATCCCCGACTGGTTTTTGAACAGA
CAGAAGGATGTAAAGGATGGAAAATATAACCAGGTCCTGGCCAACGGTCTGGACAACGAGCTCCGTGAAGACCTG
GAGCGACTGAAGAATATTCGGGCCCATAGAGGGCTGAGTCACTTCTGGGGCCTTCGTGTCCGAGGCCAGCACACC
AAGACCACTGGCCGCTGTGGCCGCACCGTAGGTGTGTCCAAGAAGAAATAAGTCTGTAGGCCTTGTTTGTTAATA
AATAGTTTATATACC

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FIGURE 4725

GCTGTCCTGAGCCTGAGTACTCTAGCTGCCTTGTGCGCCATCGCATCTGGCTGCCATCCAGCGCCAGCACACAGTA
ATGAGTGGCCGAGCTTCCTCTGGGAGGGAGGAAACAGTTAAATCTTGCAGCAGCTGCAATCATCTAGGCGTGGT
TCTCTTGTCTGACTTGGGCTGCACAGATCCTGGGCCAAGGGACAGAAGAAAGACAGCCCTAGGAGCAGAGCCTCCC
AGATGGCTGAGTTGGATCTAATGGCTCCAGGGCCACTGCCCAGGGCCACTGCTCAGCCCCCAGCCCCCTCTCAGCC
CAGACTCTGGGTACCCAGCCCAGATTCTGGGTGAGCCAGCCAGTGGGAAGAAGAGGACGTGGGCTCCTCGGAGA
AGCTTGGCAGGGAGACGGAGGAACAGGACAGCGACTCTGCAGAGCAGGGGGATCCTGCTGGTGAGGGGAAAGAGG
TCCTGTGTGACTTCTGCCTTGATGACACCAGAAGAGTGAAGGCAGTGAAGTCTGTCTAACCTGCATGGTGAATT
ACTGTGAAGAGCACTTGACGCCGCATCAGGTGAACATCAAAGTCAAAGCCACCTGCTGACCGAGCCAGTGAAGG
ACCACAACTGGCGATACTGCCCTGCCACCACAGCCCACTGTCTGCTTTCTGCTGCCCTGATCAGCAGTGCATCT
GCCAGGACTGTTGCCAGGAGCACAGTGGCCACACCATAGTCTCCCTGGATGCAGCCCGCAGGGACAAGGAGGCTG
AACTCCAGTGCACCCAGTTAGACTTGGAGCGGAAACTCAAGTTGAATGAAAATGCCATCTCCAGGCTCCAGGCTA
ACCAAAAGTCTGTTCTGGTGTCGGTGTCAGAGGTCAAAGCGGTGGCTGAAAATGCAGTTTGGGGAACTCCTTGCTG
CTGTGAGGAAGGCCCAGGCCAATGTGATGCTCTTCTTAGAGGAGAAGGAGCAAGCTGCGCTGAGCCAGGCCAACG
GTATCAAGGCCACCTGGAGTACAGGAGTGCCGAGATGGAGAAGAGCAAGCAGGAGCTGGAGAGGATGGCGGCCA
TCAGCAACACTGTCCAGTTCTTGGAGGAGTACTGCAAGTTTAAAGAACTGAAGACATCACCTTCCCTAGTGTTT
ACGTAGGGCTGAAGGATAAACTCTCGGGCATCCGCAAAGTTATCACGGAATCCACTGTACACTTAATCCAGTTGC
TGGAGAACTATAAGAAAAAGCTCCAGGAGTTTTCCAAGGAAGAGGAGTATGACATCAGAACTCAAGTGTCTGCCG
TTGTTGAGCGCAAATATTGGACTTCAAACCTGAGCCAGCACCAGGGAACAGTTCTCCAATATGCGTATGACA
TCACGTTTGACCCGGACACAGCACACAAGTATCTCCGGCTGCAGGAGGAGAACCAGCAAGGTCACCAACACCACGC
CCTGGGAGCATCCCTACCCGGACCTCCCAGCAGGTTCTGCACTGGCGGCAGGTGCTGTCCAGCAGAGTCTGT
ACCTGCACAGGTACTATTTTGAGGTGGAGATCTTCGGGGCAGGCACCTATGTTGGCCTGACCTGCAAAGGCATCG
ACCGGAAAGGGAGGAGCGCAACAGTTGCATTTCCGGAACAACCTCTCCTGGAGCCTCCAATGGAACGGGAAGG
AGTTCACGGCCTGGTACAGTGACATGGAGACCCCACTCAAAGCTGGCCCTTTCGGGAGGCTCGGGGTCTATATCG
ACTTCCCGGGAGGGATCCTTTCTTCTATGGCGTAGAGTATGATACCATGACTCTGGTTTACAAGTTTGCCTGCA
AATTTTCAGAACCACTATGCTGCCTTCTGGCTTTCCAAGAAGGAAAACGCCATCCGGATTGTAGATCTGGGAG
AGGAACCCGAGAAGCCAGCACCGTCCTTGGGGGTGACTGCTCCCTAGACTCCAGGAGCCATATCCCAGACCTTTG
CCAGCTACAGTGATGGGATTTGCATTTTAGGGTGATTTGTGGGCAGAAATAACTGCTGATGGTAGCTGGCTTTTG
AAATCCTATGGGGTCTCTGAATGAAAACATTCTCCAGCTGCTCTCTTTTGCTCCATATGGTGCTGTTCTCTATGT
GTTTGCAGTAATTTCTTTTTTTTTTTTTTGGAGACGGAGTCTCGCACTGTTGCCAGGCTGGAGAGCAGTGGCGGA
TCTTGGCTCACTGCAAGCTCCGCCTCCCGAGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTA
CAGGTGCCCTGCCACCACACCCAGCTAATGTTTTGTATTTTAGTAGAGATGGGGTTTACCATGTTGGCCAGGCA
GATCTCAAACCTCTGACCTCGTGATGCACCCACCTCGGCCTCCCAAAGTGTGGGATTACATGCGTGAGCCACTG
CGCCCTGCCTGTTTGTAGTAATTTTAGGCACCAAATCTCCCTCATCTTCTAGTGCCATTCTCCTCTCTGTTTCA
GTAAATGTCACACTGTGCCAGAAATGGATGACCAGGAACCTTAAAGAGTGGCTGAAAAGATTGCAGAGTTATCAT
AATAAATTGCTAACTTGCGT

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FIGURE 4726

MAELDLMAPGGLPRATAQPPAPLSPDSGSPSPDSGSASPVEEEDVGSSEKLGRETEEQSDSDSAEQGDPAGEGKEV
LCDFCLDDTRRVKAVKSCLTVMVNYCEEHLQPHQVNIKLQSHLLTEPVKDHNRWRYCPAHHSPLSAFCCPDQQCIC
QDCCQEHSGHTIVSLDAARRDKEAELQCTQLDLERKLKLNENAI SRLQANQKSVLVSVEVKAVAEMQFGELLAA
VRKAQANVMLFLEEKEQAALSQANGIKAHLEYRSAEMEKSQELERMAAISNTVQFLEEYCKFKNTEDITFPSVY
VGLKDKLSGIRKVITESTVHLIQLLENYKKKLQEFSEEEYDIRTQVSAVVQRKYWTSKPEPSTREQFLQYAYDI
TFDPDTAHKYLRLQEENRKVTNTTPWEHPYPDLPSRFLHWRQVLSQQSLYLHRYFFEVEIFGAGTYVGLTCKGID
RKGEERNSCISGNNFSWSLQWNGKEFTAWYSDMETPLKAGPFRRLGVYIDFPGGILSFYGYEYDTMTLVHKFACK
FSEPVYAAFWSKKENAIRIVDLGEEPEKPAPSLGVTAP

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FIGURE 4727

GGCGGACCGAAGAACGCAGGAAGGGGGCCGGGGGGACCCGCCCCGGCCGGCCGCAGCCATGAACTCCAACGTGG
AGAAACTGCCCCCGCACATCATCCGCCTGGTGTACAAGGAGGTGACGACACTGACCGCAGACCCACCCGATGGCA
TCAAGGTCTTTCCCAACGAGGAGGACCTCACCGACCTCCAGGTCACCATCGAGGGCCCTGAAGGGACCCCATATG
CTGGAGGTCTGTTCCGCATGAAACTCCTGCTGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCCTGA
CCAAGATCTTCCACCCGAACGTGGGCGCCAATGGCGAGATCTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTG
AGCTGGGCATCCGACACGTACTGCTGACCATCAGGTGCCTGCTGATCCACCCTAACCCCGAGTCTGCACTCAACG
AGGAGGCGGGCCGCCTGCTCTTGGAGAACTCCGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACG
GGGGCGCCGGCGGGCCCAGCGGCAGGGCCGAAGCCGGGCGGGCCCTGGCCAGTGGCACTGCAGCTTCCTCCACCG
ACCCTGGGGCCCCAGGGGGCTGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGA
AGCTGGCGGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTGCGGGCGGCTGTAGTGGGCTCTCTTCCTCCTCCAC
CGTGACCCCAACCTCTCCTGTCCCCCTCCCTCCAACCTCTGTCTCTAAGTTATTTAAATTATGGCTGGGGTCGGGA
GGGTACAGGGGGCACTGGGACCTGGATTTGTTTTTCTAAATAAAGTTGGAAAAGCA

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FIGURE 4728

GGGCGGTTGGCTTTGTTGGGTGAGCTTGTTTGTGTCCCTGTGGGTGGACGTGGTTGGTGATTGGCAGGATCCTGG
TATCCGCTAACAGGTCAAAATGCAGATCTTCGTGAAAACCCTTACCGGCAAGACCATCACCCCTTGAGGTGGAGCC
CAGTGACACCATCGAAAATGTGAAGGCCAAGATCCAGGATAAGGAAGGCATTCCCCCGACCAGCAGAGGCTCAT
CTTTGCAGGCAAGCAGCTGGAAGATGGCCGTACTCTTTCTGACTACAACATCCAGAAGGAGTCGACCCTGCACCT
GGTCCTGCGTCTGAGAGGTGGTATGCAGATCTTCGTGAAGACCCTGACCGGCAAGACCATCACCCCTGGAAGTGGA
GCCAGTGACACCATCGAAAATGTGAAGGCCAAGATCCAGGATAAAGAAGGCATCCCTCCCGACCAGCAGAGGCT
CATCTTTGCAGGCAAGCAGCTGGAAGATGGCCGCACTCTTTCTGACTACAACATCCAGAAGGAGTCGACCCTGCA
CCTGGTCCTGCGTCTGAGAGGTGGTATGCAGATCTTCGTGAAGACCCTGACCGGCAAGACCATCACTCTGGAAGT
GGAGCCCAGTGACACCATCGAAAATGTGAAGGCCAAGATCCAAGATAAAGAAGGCATCCCTCCCGACCAGCAGAG
GCTCATCTTTGCAGGCAAGCAGCTGGAAGATGGCCGCACTCTTTCTGACTACAACATCCAGAAGGAGTCGACCCT
GCACCTGGTCCTGCGCCTGAGGGGTGGCTGTAAATCTTCAGTCATGGCATTGCGAGTGGCCAGTGATGGCATT
CTCTGCACTATAGCCATTTGCCCAACTTAAGTTTAGAAATTACAAGTTTCAGTAATAGCTGAACCTGTTCAAAA
TGTTAATAAAGGTTTCGTTGCATGGTA

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FIGURE 4729

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRG
GMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLR
GGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRL
RGGC

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FIGURE 4730

AGGTAGGCTCTCTAGGAATCTGGGAGTAGTAGCTGGGGGGCAAGAGCAAATAAAGAGCTCGAGCTTCTGTGGTCT
CTGGGGAGATGTTCCCGGAAGCCTGTCTAGAGGGCGGAGGGCAGCTGTTGAGATGGCGTGGCTCCCCGGCTCCT
GCGCCCGCGTGGCTTTCGCGGCGGGCGCTGCGGCCCGGTATTGGACAGCCTGGCAGGGCAGCGCGGGGCCGAATC
CGGCTGCCGTGGCTGAGGCTCATGGATCACTCTTTTGTGGTAGGGCCACATCTGCCAGAGCCTGGAGTCTGCGAA
GGCCGGGACCCGGTTCCCCGGCCACAGTGGGGGTGTGCAAACCCGAGAGAACTGGATTGCGTACCCACTGCAGA
GTGCTGAAGACGGGGTAGCCACGAGGTTGCAAATTCGTGAAGAATCAGCATCATGTTTGGCAGCTGAGTATTGGA
GCCAGGAGCCTGCCATGAGGTTTTGAGAACAGAGTGCTGTTTTAGAGCTGGCAGCAGCATCTCAGCCCAAGAGAA
GGTTATATTCCAGAGGATGTCAGTCCCAAGGACCAGTAGCTGCCATCAGTTTGGATTCTGAAAACCTAACTGGCA
TCAACACTGGGTGTAGAAACATGCTTGCCCTTATGTATCAGAGGACATGCTCAGCAGATCCAAGAGATATATTGG
CAACTTTTTCTAGAAAAGGCACATTGGGTATCATTACATTCTTGAGT

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FIGURE 4731

MFPGSLSRGRRRAVEMAWLPGSCARVAFAGAAARYWTAWQGSAGPNPAVAEAHGSLFCGRATSARAWSLRRPG
PGSPAHSGGVQTRENWIAYPLQSAEDGVATRLQIREESASCLAEYWSQEPAMRF

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FIGURE 4732

TCCAGCCCTTCTCCTGTGTGCCTGCCTCCTGCCGCCGCCACC**ATGA**CCACCTCCATCCGCCAGTTCACCTCCTCC
AGCTCCATCAAGGGCTCCTCTGGCCTGGGGGGCGGCTCGTCCCGCACCTCCTGCCAGCTGTCTGGCGGCCTGGGT
GCCGGCTCCTGCAGGCCGGGATCTGCTGGTGGCCTGGGCAGCGCCCTCGGGGGTAGCAGCTACTCCAGCTGCTAC
AGCTTTGGCTCTGGCGGTGGCTATGGCAGCAGCAGCTTTGAGGGCGTTGATGGGCTGCTGGTTCGGAGGTGAGAAG
GCCACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCTGGACAAGGTGCGTGCCCTGGAGGAGGCCGACACT
GAGCTGGAGGTAAAGATCCGTGACTGGTACCAGAGGCAGGCCCCGGGGCCCGCCCGTGACTACAGCCAGTACTAC
AGGATAATCGAGGAGCTGCAGAACAAGATCCTCACAGCCACCGTGGACAATGCCAACATCCTGCTACATATTGAC
AATGCCCATCTGGCTGCTGCTGACTTCCGCACCAAGTTTGAGACAGAGCAGGCCCTGTGCCTGAGTGTGGAGGCC
GACATCAATGGCCCGTGCAGGGTGTGGATGAGCTGACCCTGGCCAGAGCCGACCTGGAGATGCACATTGAGAAC
CTCAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGAGGAGATGAACGCCCCGCGAGGCCAGGTGGGCGGT
GAGATCAATGTGGAGATGGGCGCTGCCCCAGGTGTGGACCTGAGCCGCATCCTGAATGAGATGCGTGAGCAGTAT
GAGAAGATGGCAGAGAAGAACCGCAAGGATGCCGAGGATTGGTTCTTCAGCAAGACAGAGGAGCTGAACCGCGAG
GTGGCTACCAACAGTGAGCTGGTCCAGAGCGGCAAGAGCGAGATTTCGGAGCTCCGGTGCACCATGCAGGCCTTG
GAGATCGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCTGGAGGGCAACCTGGCGGAGACAGAGAACCGCTAC
TGCATGCAGCTGTCCAGATCCAGGGGCTGATCGGCAGTGTGGAGGAGCGGCTGGCCCAGCTTCTCTGCGAGATG
GAGCAGCAGAACCAGGAGTACAAGATCCTCCTGGACATGAAGATGCGGCTGGAGCTGGAGATCACCACTACCAC
CGCCTGCTGGAGGGCGAGGATGCCCACCTGACTCAGTACAAGAAAGAACCGGTGACCACCTGTCAGGTGCCTACC
ATTGTGGAAGAGGTCCAGGATGGTAAGGTCATCTCCTCCCGCGAGCAGGTCCGCCAGACCACCGCT**GA**GCACTC
AGCTTTCCTGGCCGGCCCCCAGGAGGCAGGGAGGCAGCGGTCCCATCTGCCCCGCGGTCTCCGGCCTCTCCACC
CTCAGCCCCCTGCTTCAGTCCCTTCCCCATGCTTCCCTGCGTGATGACAATAAAGCTCGTTGACTCAGCT

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FIGURE 4733

MTTSIRQFTSSSSIKGSSGLGGGSSRTSCQLSGGLGAGSCRPGSAGGLGSALGGSSYSSCYSGGGGYGSSSFE
GVDGLLVGGEKATMQNLNDRLASYLKVRAL EADTELEV KIRDWYQRQAPGPARDYSQYYRIIEELQNKILTAT
VDNANILLHIDNAHLAAADFRTKFETE QALCLSVEADINGPCRVLDELTARADLEMHIENLKEELAYLKKNHEE
EMNAPRGQVGGEINVEMGAAPGVDL SRILNEMREQYEKMAEKNRKDAEDWFFSKTEELNREVATNSELVQSGKSE
ISELRCTMQALEIELOSQLSMKASLEG NLAETENRYCMQLSQIQGLIGSVEERLAQLLCEMEQQNQEYKILLDMK
MRLELEITTYHRLLEGEDAHLTQYKKEPVTT CQVPTIVEEVQDGKVISSREQVRQTTR

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FIGURE 4734

CTTTCCGCTCGGCTGTTTTCTGCTCAGGAGCCGCAGGGCCGTAGGCAGCCATGACGCCCAGCCGGAATGGCATG
GTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGCGCGTGGCCACGTGGTTCAACCAGCCGGCCCCGGAAGATC
CGCAGACGTAAGGCCCGGCAAGCCAAGGCGCGCCGCATCGCCCCGCGCCCCGCGTCGGGGCCCATCCGGCCCATC
GTGTGCTGCCCCACGGTTTCGGTACCACACGAAGGTGCGCGCCGGCCGCGGCTTCAATCTGGAGGAGCTCAGGGTG
GCCGGCATTACACAAGAAGGTGGCCCCGGACCATCGGCATTTCTGTGGATCCGAGGAGGCGGAACAAGTCCACGGAG
TCCCTGCAGGCGAACGTGCAGCGGCTGAAGGAGTACCGCTCCAACTCATCTCTTCCCCAGGAAGCCCTCGGCC
CCCAAGAAGGGAGACAGTTCTGCTGAAGAACTGAACTGGCCACCCAGCTGACCGGACCGGTCATGCCCATCCGG
AATGTCTATAAGAAGGAGAAAGCTCGAGTGATCACTGAGGAAGAGAAGAATTTCAAAGCCTTCGCTAGTCTCCGT
ATGGCCCGTGCCAACGCCCCGGCTCTTCGGCATAACGGCAAAAAGAGCCAAGGAAGCCGCAGAACAGGATGTTGAA
AAGAAAAAATAAGCCCTCCTGGGGACTTGGAAT

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FIGURE 4735

GAATGGCATGGTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGCGCGTGGCCACGTGGTTCAACCAGCCGGC
CCGGAAGATCCGCAGACGTAAGGCCCGGCAAGCCAAGGCGCGCCGCATCGCCCCGCGCCCCGCGTCGGGGCCCAT
CCGGCCCATCGTGTGCTGCCCCACGGTTCGGTACCACACGAAGGTGCGCGCCGGCCGCGGCTTCAATCTGGAGGA
GCTCAGGGTGGCCGGCATTACAAGAAGGTGGCCCGGACCATCGGCATTTCTGTGGATCCGAGGAGGCGGAACCA
AACTCATCCTCTTCCCCAGGAAGCCCTCGGCCCCAAGAAGGGAGACAGTTCTGCTGAAGAACTGAACTGGCCA
CCCAGCTGACCGGACCGGTCATGCCCATCCGGAATGTCTATAAGAAGGAGAAAAGCTCGAGTGATCACTGAGGAAG
AGAAGAATTTCAAAGCCTTCGCTAGTCTCCGTATGGCCCGTGCCAACGCCCCGGCTCTTCGGCATACT

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FIGURE 4736

MAPSRNGMVLKPHFHKDWQRRVATWFNQPARKIRRRKGPASQGAPHRSAF RVGSHPAHRALPHGSVPHEGARRPR
LQPGGAPGWPAFTRRWPGPSAFLWIQTHPLPQEALGPQEGRQFC

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FIGURE 4737

GTAGAGTGC GCGACGCTTTTGGCGACCCGACCTCTGGCTAACCTACCCCGGAGCCATGGCCTCTGCTGGGGTGG
CAGCCGGGCGACAGGCGGAGGATGTATTGCCGCCAACGTCCGACCAGCCGCTGCCTGACACCAAGCCGCTGCCGC
CTCCTCAGCCGCCGCCGGTCCCTGCGCCTCAACCGCAGCAGTCGCCGGCGCCACGGCCTCAGTCACCTGCCCGCG
CGAGGGAGGAAGAGAACTACTCCTTTTACCTTTGGTTTACAACATCATCAAATGCATGGACAAGGACAGCCCAG
AGGTCCACCAGGACCTGAACGCCCTCAAAAGCAAGTTCCAGGAGATGCGCAAGCTCATCAGCACCATGCCCGGCA
TCCACCTGAGCCCCGAACAGCAGCAGCAGCAGCTGCAGAGCCTCCGGGAGCAAGTCAGGACCAAGAATGAGCTTC
TGCAAAAGTACAAGAGCCTCTGCATGTTTCAAATCCCCAAGGAGTAGAGTGAGGCTGACTTCCTTAGAAAGAGGG
GGAAGCCAATGGCCTGTCTCCCCACTACCATCCCCAACGCTCCTTTGGGGCGTGTTTCTGTGGACCCCAGCTCA
GCTCGTCAAGCTGCAGGGGCGGGGCTCCTGTGCTGCTGCGCGCGCTTCGCCTGTGCGGGAGCCAGCGCAGAGCTT
GGCTGCGCGGGGGGTTTCTCGTGTAGATCCATATGTCTAGATGCATAATAACTGGAGTGCTGTGGTGAAGTC
AGAATGCTCCTGGAGGCTGCAGAGGGGGTGGAGGACTCTCCCCTGCCTCTGGGGAGGGGGCCATCTGCTGCGCCC
GGCCCCACTGACAGATCTGAAGAGCACAGTAGGAAGGGAGGCGGCTCCTCTTTGCTTCCTTCCCTCTCTCTCCTC
CCACCCCCATAGGATCAGTGTGTIACCAGGTACACATTGTTCTGTAAACAGCAGCTTCTTGAAACATTTGCATAG
AATTCACTGGACGAATTAAGCCTGCACTCATATGGCATAGAATTGTGAGAGAATGTTTTGAAAGGCCAGAGGGTG
GCCTTTTTTCCCCAAACAGTTTTGGTTCTTTTATGTTTGAGCCAGTGAAGGGAACACGCTTTGGGGGCTTCAGCC
TAGAGCCCTGCCAGGCAGCCCCCTGGCTCCAGGTTCCCTGCCTCCTAGCGCTCTCCTCGCCTTCAGCTCTTGCTCC
CTTCTCGTTTCATCACCTCAGTCAGTGCCCAAGAGTGGCCAAACCGCTTCACATCTGCAGTGCTTCCCCAGGGT
TGACAAGGGGCGCTCCTTTCCACACAGGCCAGAAGAGGTCTTCAGGCGAACCGACCTTCCCCCTTCTGGCATTTT
AGATTCCCCTTGCTCTGTTTAAAGGTCTTTCCCTCGTGGCCTTTGCACTTGCGGCAGCAACGTGTACTACTG
CAGAAGGGTTTCAATATGCACCTTGTGTTGAGAGAGAGGCAACCCTGGGGGCCAGTTCAGGTGGTCCCCAACCATA
GGCTAGGTCTGAAAGTTACACAGCCAAGTTTGAGCTCTTAAAGTTGATGAACAGCCTCATTTCCCCAGCTTCCC
TGATTTCTTCCAGATGGGACGTTTTATTTGTGTGCTCTCCCTTGACTGTCAGATTGAAGTAAGAGCAGTTCTCTC
CGTTGCCTCTCGAGGAGGAGGTGCGAAGTCCTGGAGTATTGTTTGGGTCTCGGAATGGGCGCATAACCTGCGCTG
ACCAGTTTAGGGGCTTAGCAGATGCCTGCCAGCTGACCTCGTTGGCAGGAGGGTTGGGTGGAGATGTTTTTAGCA
GAGCTTCCATTAGTGTAGACCTGTAGCCACCTGTCAGAAGGTGGGTGGCATATTGGGGACCTGGGAATGTGTGAA
GGAGGAGATCAAATTTTCACTGGCTTTGGACAGAAAAGAGGCTCTGGATTTAAGCGGGTGGTCACCTGTGAGACC
AGGTCTACCTTGGGACTGTTATTTAACTGAATCAGTTATTTCTTGAATTTTACAGTAGTGGGTGGGCCTGTTT
TAAGGCTCTGACAGATACCACGAAACATGAAGCACGTGGAACACAGACCCCGGGGTCTTTCTGAGTGCAAGG
CTGAAATGGACAAGGGCTCCTCACGGGGGTGGAGGGAGCCGGAGCCTGCCTTGTGTTTCTTTTTTGAAGTTGTGAC
ATTTTTCAAACACATAATTAAGGACTTATGCTCTGCTGTCTCAGG

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FIGURE 4738

MASAGVAAGRQAEDVLPPTSDQFLPDTKPLPPPQPPVPAPQPQQSPAPRPQSPARAREEENYSFLPLVHNIKC
MDKDSPEVHQDLNALKSKFQEMRKLISTMPGIHLSPEQQQQQLQSLREQVRTKNELLQKYKSLCMFEIPKE

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FIGURE 4739

GGGGCGACCCGACCTCTGGCTAACCTACCCCCGGAGCCATGGCCTCTGCTGGGGTGGCAGCCGGGCGACAGGCGG
AGGATGTATTGCCGCCAACGTCCGACCAGCCGCTGCCTGACACCAAGCCGCTGCCGCCTCCTCAGCCGCCGCCGG
TCCCTGCGCCTCAACCGCAGCAGTCGCCGGCGCCACGGCCTCAGTCACCTGCCC GCGCGAGGGAGGAAGAGAACT
ACTCCTTTTTACCTTTGGTTCACAACATCATCAAATGGTAAGAACCTAGGAGAGGACCAGGCCCCATACTCCCTC
CAGCTTCTCCTCTCAGCCGTTTCAGAGCTGCAAGAGGCCTTGGCGCTCTGGGGCAGCCCCCGTTTCACAGATGG
GGAAACTCAGACCCAGAGCGGGAAGAGGCCTTTCCCAAGACCACAGAGACATTCCATGAGTTAAGCAAACGATT
GAGCCTCGAGAGGTGCGATATCCTTAAGAATGAAGCCAGCTTAGAGACTAAATGCAGACTCTTGTCCAGCGGCTC
AAATGTTTCATCCCAGCGATCTTGAGCAAATTAAATCTCTTTAAGCCGCAAAAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 4740

MASAGVAAGRQAEDVLPFTSDQPLPDTKPLPPPQPPVPAPQPQQSPAPRPQSPARAREEENYSFLPLVHNIKW

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FIGURE 4741

GCCCTGCCAGCCCCAGACAAGGGCACAGAAACAGCCAGGCCACACCAACTACAGCAGCTATTCCAAGCGGAAGCG
CCTCACTCGGGGCCGGGCCAAGAACACCACCTCTTCACCCTGTAAGGGGCGTGCCAAGCGACGACGACAGCAGCA
GGTGCTGCCCCCTGGATCCCGCAGAGCCTGAAATCCGCCTCAAGTACATTTCTCTTGCAAGCGGCTGAGGTCAGA
CAGCCGGACCCCCGCCTTCTCACCCTTCGTGCGGGTGGAGAAGCGAGACGCGTTACCACCATATGCACTGTTGT
CAACTCCCCTGGAGATGCGCCCAAGCCCCACAGGAAGCCTTCCTCCTCTGCCTCCTCTTCCTCATCCTCGTCCTC
GTTCTCCTTGATGCAGCCGGGGCCTCCCTGGCCACACTCCCTGGAGGCTCCATCCTGCAGCCGCGGCCCTCCTT
GCCCCCTCTCCTCCACGATGCACTTGGGGCCTGTGTTTCCAAGGCCCTGAGTACCTCTTGCCCTTGTTTGCTGCCT
CTGCCAAAACCCGGCCAACTTCAAGGACCTTGGGGACCTCTGTGGGGCCCTACTACCCTGAACACTGCCTCCCCAA
AAAGAAGCCAAAACCTCAAGGAGAAGGTGCGGCCAGAAGGCACCTGTGAGGAGGCCTCGCTGCCGCTTGAGAGAAC
ACTCAAAGGTCCCAGTGTGCAGCTGCCGCCACTGCCGGGAAGCCCCCAGGCCTGACGGCCAGCTGACCCGGC
CAAGCAGGGCCCACTGCGCACCACTGCGCGGGGCTGTCCCGGAGGCTGCAGAGCTGCTACTGCTGTGATGGCCG
GGAGGATGGGGGCGAGGAGGCAGCCCCAGCCGACAAGGGTCGCAACATGAGTGCAGCAAGGAGGCTCCGGCAGA
GCCCCGCGGGGAGGCCAGGAGCACTGGGTGCATGAGGCCTGTGCCGTGTGGACCGGCGGCGTCTACCTGGTGGC
CGGGAAGCTCTTTGGGCTGCAGGAGGCCATGAAGGTGGCCGTGGACATGATGTGTTCCAGCTGCCAAGAAGCCGG
GGCCACCATTGGGTGCTGCCACAAAGGATGCCTCCACACCTACCACTACCCGTGTGCCAGCGATGCAGGTTGCAT
ATTCATCGAAGAGAACCTTTCTTTGAAATGTCCCAAACATAAGAGGCTGCCGTAGTAATCCACCCCAACGGCCGG
AGGAGCCGCCGGAGCCCGCCTGCCCGCCCGCCCGGAAGGAGAGGAGCCGCTGCGCAGCCCCCGGGCCTTTGAG
CTGCTCCAGCGCTGGTCCAGAGCCGATCCTTGATCCGGGTCCCGGATCGTGATCCGGCCGCTAGGGCTCAGA
CTTGCGGCCCCGGGTTGGGAGGAAAACCCGTTCGGGAGCCGCTGCTCCCGGAACCGGACGGCACAGGGCGTTCT
TGCCACCCCAAGGGGCCAGGCTTGCGGAGGGGGAGCCCGCGGAGCGGCCAGACTCCCCGGGGCGCTCAGCCTCCG
GCGAGGTTGGGAGACGGCTTTGTCTGGGGACACTTTCCCTCTGGAATCTCAAGACGACGTGGCACACATTCCAC
GTGGGTGCTGCCGCCACCCAGTCGGTCGTGGCGTGACGCTGGGAGCCCTGGGCTTGGGGGTGGGGGTGAAACA
GTACTGGAAGAGGCGGAGGGCGGCTCCTAGCTCCGTGGACTAGGCGGGGAGAAAGGAAGCCTTTCTGAGAGCGG
GCTAGGCCGGCACTGGAGAGGCCGGAGCCTTTGGAACAAACCGTGCGGAACGCGTCCAGGGGCCTTCCCGCCAG
CCTTTGCCAGATCTCTCGTGCGGTTCCGGGCAAAGCCGGGTAGACCTGGGCTATGCTCAGTTAGGGGTTGCGGGA
TCCCCGAGTGTGGGCGGGACTGGGACACCCTTTGGCCTCTGTTTGTCCCTTTCCAGTCTCCACCCCAACCCCTG
GAGCCAGCCTGGGAGCGCAAAAACCAAGAAGCGGCCAGAACGCACCTCCGGCTCCGGCGGACGCGCGACCGTTG
TGCACCACAGGGACCGCGCCTACTCTGCACGGGAGCAGGGACAGCGCTAGATTTCTGTGTACAAAACCTGTG
TACCCCTCTATATATATGTTACATAGAATGTATATATGTTGGGAACATGCTCGCTTCTCCCGTGTGTGCGCGCCG
TGCGTCGTGCGCCCGCAACAGAGCCCCAACCGGGCCTTTGCCGGGTAAGGGGCTACCGCGACGCCACTTGTCCAC
GCAGCCACCACCGGCCCGGGCCAGTCCCTGCCAGTCCGTCCGCCTGTCCGTCCGTGCTCAGCTCTGTCCACGC
TTCGATAGGCCTGACGCAGCCCCCAGCCAGGGCCGCCCTAGCAACTTCTGTACATATGACTGTAAAATGGTAA
ACGTGTGTATTATATCTGGCCTCGTTATATAGTGATATATATGTATACATATACATATATATAATATATATGAA
GACTGTAAATGTTAAGACGACTAGTGTCTTATTAGTATATTGCTTCACACTGAAGATTGTGTGTATCGAGCTGT
TTCTAAAAGATGTTTTATTTTCTTAAGAGTAAAAAACAGTCATTGCATTAGAAAAAAGTCAA
TAAAGATACAACGATTGTTTTGAAAA

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FIGURE 4742A

TAACGAGGAACTTTTGCGCGGCGCCGGGCGCCTCTGAGGCCAGGGCAGGACACGAACGCGCGGAGCGGCGGCGG
CGACTGAGAGCCGGGGCCGCGGCGGCGCTCCCTAGGAAGGGCCGTACGAGGCGGCGGGCCCGGCGGGCCTCCCGG
AGGAGGCGGCTGCGCCATGGACGAGCCACCCTTCAGCGAGGCGGCTTTGGAGCAGGCGCTGGGCGAGCCGTGCGA
TCTGGACGCGGCGCTGCTGACCGACATCGAAGACATGCTTCAGCTTATCAACAACCAAGACAGTGACTTCCCTGG
CCTATTTGACCCACCCTATGCTGGGAGTGGGGCAGGGGGCACAGACCCTGCCAGCCCCGATAACCAGTCCCCAGG
CAGCTTGTCTCCACCTCCTGCCACATTGAGCTCCTCTCTTGAAGCCTTCCTGAGCGGGCCGAGGCAGCGCCCTC
ACCCCTGTCCCCTCCCCAGCCTGCACCCACTCCATTGAAGATGTACCCGTCCATGCCCGCTTTCTCCCCTGGGCC
TGGTATCAAGGAAGAGTCAGTGCCACTGAGCATCCTGCAGACCCCCACCCACAGCCCCCTGCCAGGGGGCCCTCCT
GCCACAGAGCTTCCCAGCCCCAGCCCCACCGCAGTTTCAGCTCCACCCCTGTGTTAGGCTACCCACAGCCCTCCGGG
AGGCTTCTCTACAGGAAGCCCTCCCGGGAACACCCAGCAGCCGCTGCCTGGCCTGCCACTGGCTTCCCCGCCAGG
GGTCCCGCCCGTCTCCTTGACACCCAGGTCCAGAGTGTGGTCCCGCAGCAGCTACTGACAGTCACAGCTGCCCC
CACGGCAGCCCCCTGTAACGACCACTGTGACCTCGCAGATCCAGCAGGTCCCGGTCTGTGTCAGCCCCACTTCAT
CAAGGCAGACTCGCTGCTTCTGACAGCCATGAAGACAGACGGAGCCACTGTGAAGGCGGCAGGTCTCAGTCCCCCT
GGTCTCTGGCACCCTGTGTCAGACAGGGCCCTTTGCCGACCCTGGTGAGTGGCGGAACCATCTTGGAACAGTCCC
ACTGGTTCGTAGATGCGGAGAAGCTGCCATCAACCGGCTCGCAGCTGGCAGCAAGGCCCGGCGCTCTGCCAGAG
CCGTGGAGAGAAGCGCACAGCCCCACAACGCCATTGAGAAGCGCTACCGCTCCTCCATCAATGACAAAATCATTGA
GCTCAAGGATCTGGTGGTGGGCACTGAGGCAAAGCTGAATAAATCTGCTGTCTTGCGCAAGGCCATCGACTACAT
TCGCTTTCTGCAACACAGCAACCAGAACTCAAGCAGGAGAACCTAAGTCTGCGCACTGCTGTCCACAAAAGCAA
ATCTCTGAAGGATCTGGTGTGCGCCTGTGGCAGTGGAGGGAACACAGACGTGCTCATGGAGGGCGTGAAGACTGA
GGTGGAGGACACACTGACCCCCACCCCTCGGATGCTGGCTCACCTTTCCAGAGCAGCCCCCTGTCCCTTGGCAG
CAGGGGCACTGGCAGCGGTGGCAGTGGCAGTGACTCGGAGCCTGACAGCCAGTCTTTGAGGACAGCAAGGCAAA
GCCAGAGCAGCGGCCGTCTCTGCACAGCCGGGCGATGCTGGACCGCTCCCGCCTGGCCCTGTGCACGCTCGTCTT
CCTCTGCCTGTCTGCAACCCCTTGGCCTCCTGTGTTGGGGGCCCGGGGCTTCCCAGCCCCCTAGATACCACCAG
CGTCTACCATAGCCCTGGGCGCAACGTGCTGGGCACCGAGAGCAGAGATGGCCCTGGCTGGGCCCAGTGGCTGCT
GCCCCAGTGGTCTGGCTGCTCAATGGGCTGTTGGTGCTCGTCTCCTTGGTGCTTCTCTTTGTCTACGGTGAGCC
AGTCACACGGCCCCACTCAGGCCCCGCGGTGTACTTCTGGAGGCATCGCAAGCAGGCTGACCTGGACCTGGCCCCG
GGGAGACTTTGCCAGGCTGCCCAGCAGCTGTGGCTGGCCCTGCGGGCACTGGGCGGGCCCTGCCACCTCCCA
CCTGGACCTGGCTTGTAGCCTCCTCTGGAACCTCATCCGTACCTGCTGCAGCGTCTCTGGGTGGGCGGCTGGCT
GGCAGGCCGGGCAGGGGGCCTGCAGCAGGACTGTGCTCTGCGAGTGGATGCTAGCGCCAGCGCCGAGACGCAGC
CCTGGTCTACCATAAGCTGCACCACTGCACACCATGGGGAAGCACACAGGCGGGCACCTCACTGCCACCAACCT
GGCGCTGAGTGGCCTGAACCTGGCAGAGTGTGCAGGGGATGCCGTGCTGTGGCGACGCTGGCCGAGATCTATGT
GGCGGCTGCATTGAGAGTGAAGACCAGTCTCCACGGGCCTTGCAATTTCTGACACGCTTCTTCTGAGCAGTGC
CCGCCAGGCCCTGCCTGGCACAGAGTGGCTCAGTGCCTCCTGCCATGCACTGGCTCTGCCACCCCGTGGGCCACCG
TTCTTCTGTTGGATGGGGACTGGTCCGTGCTCAGTACCCCATGGGAGAGCCTGTACAGCTTGGCCGGGAACCCAGT
GGACCCCTGGCCCAGGTGACTCAGCTATTCCGGGAACATCTCTTAGAGCGAGCACTGAACTGTGTGACCCAGCC
CAACCCAGCCCTGGGTGAGCTGATGGGGACAAGGAATTCTCGGATGCCCTCGGGTACCTGCAGCTGCTGAACAG
CTGTTCTGATGCTGCGGGGGCTCCTGCCTACAGCTTCTCCATCAGTTCCAGCATGGCCACCACCACCGGCGTAGA
CCCGGTGGCCAAAGTGGTGGGCGCTCTCTGACAGCTGTGGTGATCCACTGGCTGCGGGCGGGATGAGGAGGCGGCTGA
GCGGCTGTGCCCCTGGTGGAGCACCTGCCCCGGGTGCTGCAGGAGTCTGAGAGACCCCTGCCAGGGCAGCTCT
GCACTCCTTCAAGGCTGCCCGGGCCCTGCTGGGCTGTGCCAAGGCAGAGTCTGGTCCAGCCAGCCTGACCATCTG
TGAGAAGGCCAGTGGGTACCTGCAGGACAGCCTGGCTACCAACAGCCAGCAGCTCCATTGACAAGGCCGTGCA
GCTGTTCTGTGTGACCTGCTTCTTGTGGTGCACACAGCCTGTGGCGGCAGCAGCAGCCCCCGGCCCGGCCCG
AGCAGCCCAGGGCGCCAGCAGGCCCCAGGCTTCCGCCCTTGAGCTGCGTGGCTTCCAACGGGACCTGAGCAG
CCTGAGGCGGCTGGCACAGAGCTTCCGGCCCGCCATGCGGAGGGTGTTCCTACATGAGGCCACGGCCCGGCTGAT
GGCGGGGGCCAGCCCCACACGGACACACCAGTCTCTGACCGCAGTCTGAGGCGGCGGGCAGGCCCGGTGGCAA
AGGAGGCGCGGTGGCGGAGCTGGAGCCGCGGCCACGCGGCGGGAGCACGCGGAGGCCTTGCTGCTGGCCTCCTG
CTACCTGCCCCCGGCTTCTGTGCGCGCCGGGAGCGCGTGGGCATGCTGGCTGAGGCGGCGCGCACACTCGA
GAAGCTTGGCGATCGCCGGCTGCTGCACGACTGTCAGCAGATGCTCATGCGCCTGGGCGGTGGGACCACTGTCAC

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FIGURE 4742B

TTCCAGCTAGACCCCGTGTCCCCGGCCTCAGCACCCCTGTCTCTAGCCACTTTGGTCCCGTGCAGCTTCTGTCCT
GCGTCGAAGCTTTGAAGGCCGAAGGCAGTGCAAGAGACTCTGGCCTCCACAGTTCGACCTGCGGCTGCTGTGTGC
CTTCGCGGTGGAAGGCCCCGAGGGGCGCGATCTTGACCCTAAGACCGGCGGCCATGATGGTGCTGACCTCTGGTGG
CCGATCGGGGCACTGCAGGGGCCGAGCCATTTTGGGGGGCCCCCTCCTTGCTCTGCAGGCACCTTAGTGGCTTT
TTTCCTCCTGTGTACAGGGAAGAGAGGGGTACATTTCCCTGTGCTGACGGAAGCCAACCTTGGCTTTCCCGGACTG
CAAGCAGGGCTCTGCCCCAGAGGCCTCTCTCTCCGTCGTGGGAGAGAGACGTGTACATAGTGTAGGTCAGCGTGC
TTAGCCTCCTGACCTGAGGCTCCTGTGCTACTTTGCCTTTTGCAAACCTTTATTTTCATAGATTGAGAAGTTTGT
ACAGAGAATTAAAAATGAAATTATTTATA

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FIGURE 4743

MDEPPFSEAALEQALGEPCDLDAALLTDIEDMLQLINNQDSDFPGLFDPFYAGSGAGGTDPASPDTSPPGSLSP
PATLSSSLEAFLSGPPQAAPSPLSPPQPAPTPLKMYPSMPAFSPGPGIKEESVPLSILQTPTPQPLPGALLPQSFP
APAPPQFSSTPVLGYPSPPGGFSTGSPPGNTQQPLPGLPLASPPGVPPVSLHTQVQSVVPQQLLTVTAAPTAA
TTTVTSQIQQVPVLLQPHFIKADSLLLTAMKTDGATVKAAGLSPLVSGTTVQTGPLPTLVSGGTILATVPLV
EKLPIINRLAAGSKAPASAQSRGEKRTAHNAIEKRYRSSINDKIIELKDLVVGTEAKLNKSAVLRKAIDYIRFLQH
SNQKLQENLSLRTAVHKSLSKDLVSACGSGGNTDVLMEGVKTEVEDTLTPPPSDAGSPFQSSPLSLGSRGSGS
GGSGSDSEPDSPVFEDSKAKPEQRPSLHSRGMLDRSRLALCTLVFLCLSCNPLASLLGARGLPSPSDTTSVYHSP
GRNVLGTESRDGPGWAQWLLPPVVWLLNGLLVLSLVLLFVYGEVTRPHSGPAVYFWRHRKQADLDLARGDFAQ
AAQQLWLALRALGRPLPTSHLDLACSLWNLIRHLLQRLWVGRWLAGRAGGLQQDCALRVDASASARDAALVYHK
LHQLHTMGKHTGGHLTATNLALSALNLAECAGDAVSATLAEIYVAAALRVKTSPLRALHFLTRFFLSSARQACL
AQSGSVPPAMQWLCHPVGHRFFVDGDWSVLSTPWESLYSLAGNPVDPLAQVTQLFREHLLERALNCVTQPNPSPG
SADGDKEFSDALGYLQLLNSCSDAAGAPAYSFSISSMATTTGVDPVAKWWASLTAVVIHWLRRDEEAAERLCPL
VEHLPRVLQESERPLPRAALHSFKAARALLGCAKAESGPASLTICEKASGYLQDSLATTTPASSSIDKAVQLFLCD
LLLVRTSLWRQQPPAPAPAAQGASSRPQASALELRGFQDLSLRLRLAQSFAPAMRRVFLHEATARLMAGASP
TRTHQLLDRSLRRRAGPGGKGGAFAELEPRPTRREHAEALLASCYLPPGFLSAPGQRVGMLAEAAARTLEKLGR
RLHDCQQLMRLGGGTTVTSS

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FIGURE 4744

AGGTCGTTCGCGATGAACTCCTGCTGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCTTGACCAA
GATCTTCCACCCGAAGTTGGGCGCCAATGGCGAGATGTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTGAGCT
GGGCATCCGACACGTACTGCTGACCATCAAGTGCCTGCTGATCCACCCTAACCCGAGTCTGCACTCAACGAGGA
GGCGGGCCGCTGCTCTTGGAGAACTACGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACGGGGG
CGCCGGCGGGCCAGCGGCAGGGCCAAAGCCGGGCGGGCCCTGGCCAGTGGCACTGCAGCTTCTCCACCGACTC
TGGGGCCCCAGGGGGCTTGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGAAGCT
GGCGGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTACGGCGGCTGTAGTGGGCTCTCTTCTCCTTCCACCGTG
ACCCCAACCTCTCCTGTCCCCTCCCTCCAACCTCTGTCTCTAAGTTATTTAAATTATGGCTGGGGTCGGGAGGGT
ACAGGGGGCACTGAGACCTGGATTTGTTTTTTTAAATAAAGTTGGAAAAGCA

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FIGURE 4745

TTTCTCTGGAGGAGCTCCGCGCGTGGCGAGTCTGTGTCTCCCTGTCCCCCAGAGCAGAGAACCCTCTCTGTGTC
TGGACCGGGGAGGAGCAGACGCTGGACAGGGTGTGTGTGTTTCAGCAGTGGATTGTCAGACTTGGGGTCCCGGCTG
CTCCCTTTTGGGTCTCTCCCCGGGCGCTGATCTGACTGTAAATTCCTTCTGCTGGAGCTAGGGTTTCGGCCACCT
TGACGCGCCCCCTCTGCCCCGGAGCGTGTCTTTGGGTTTTGTGTGTGTGGGAGTGGGGTGTATGTGTGTTTCTT
ATCCGAGACACCTCCGGGTGCTTTGCTTGAAACCGGCTGAGGGCCCCGCACAGCCTGGAGCATTGTTGGTGGAAAG
TGAGGCAGGTAGCGCCCAAGGCTCCTGTACCAGGGCCAGGTTAGGCACCAACGCGTCCCTTATGTCTCTGCAGCC
TGCAGTGTGGTGAACCGTTTTATAGACTGACAGTGTGAACGTGGGAGGGGATGGATATCAGAGACCCGTTTATC
CACATTTTCAGAGAGTGGTATTGCTCCGATGTGAGTGTAGGCAGGTTACTCTCTGTGTCTCGTGTCTTTACCTG
TAATTTGAGGTTTGTGTACCTACTTTTTAAGTGGTGGTTGTGAGGATTAAATGGAATTTTGACATGCAACAGTTG
ACACAGGGCCAGACACCAAGTAAGGGATCAATCAGTTGTTGCTTTTATTAATAGTAGGCATCCATCTGCCACTT
GTACGTAAGAAGGAAACACCCAAGAATGAAAAGTAGCTTGTGTAGGTCACCCAGCCAAC TAGCACATAGGGGAA
ATTAGAATCCAGGCACTCCCAGCAGGGCACTTTCCACCACCCTGCACCTTTTGTATTTCATCAGGCACAATATCCTT
ACTGTTGTCTGTAACCTGTCTATGTTCAGTGTCTGACTCTGCAGGGCCCTGGTGGTATAAAGGTACTGAGACTT
GCCTGTGTTTAGGGCTTCCTGAAGATTAAATGGCTGCTGAAGTTCTTGAGTTTAGCTTTAGCTCAAAAAGATACTG
CGTCAGACTCTGCGTTCTGAGTAGAGTCTCAGACAATGAAAAAGAAATACAATGAAAAAGGGGAAAACTTCAAT
CCAGAATCTCTTGCCACAGTTTTTGGCAGAATGCTGGCAATTCAGGAAGATATGTGGAGAACGGAAAGGTTGC
TACACCCAAATAGTGGCGCAAAGGCTATGATTATGGAGGATTGGACCTGCAAACTCCAGAACAGAGTTCTGCCCT
CTGAGGACCCTGCCCTTTCCCAAAGGGGTATCTTAAGAAGGAAAATATGGCTGCTCTTTGCCGGACAGCAGAGT
CCCAGAGGCTGAACCTCCAGTGCACCCAGTTAGACTTGGAGCGGAAACTCAAGTTGAATGAAAATGCCATCTCCAG
GCTCCAGGCTAACCAAAAGTCTGTTCTGGTGTGCGGTGTGAGAGTCAAAGCAGTGGCTGAAATGCAGTTTGGGGA
ACTCCTTGCTGCTGTGAGGAAGGCCAGGCCAATGTGATGCTCTTCTTAGAGGAGAAGGAGCAAGCTGCGCTGAG
CCAGGCCAACGGTATCAAGGCCACCTGGAGTACAGGAGTGCCGAGATGGAGAAGAGTAAGCAGGAGCTGGAGAC
GATGGCGGCCATCAGCAACACTGTCCAGTTCTTGGAGGAGTACTGCAAGTTTAAGAACACTGAAGACATCACCTT
CCCTAGTGTTTACATAGGGCTGAAGGATAAACTCTCGGGCATCCGCAAAGTTATCACGGAATCCACTGTACACTT
AATCCAGTTGCTGGAGAATAAAGAAAAAGCTCCAGGAGTTTTCCAAGGAAGAGGAGTATGACATCAGAACTCA
AGTGTCTGCCATTGTTTCAGCGCAAATATTGGACTTCCAAACCTGAGCCAGCACCAGGGAACAGTTCTCTCAATA
TGTGCATGACATCAGTTTCAGCCGGACACAGCACACAAGTATCTCCGGCTGCAGGAGGAGAACCGCAAGGTCAC
CAACACCACGCCCTGGGAGCATCCCTACCCGGACCTCCCCAGCAGGTTCTGCACTGGCGGCAGGTGCTGTCCCA
GCAGAGTCTGTACCTGCACAGGTACTATTTTGAGGTGGAGATCTTCGGGGCAGGCACCTATGTTGGCCTGACCTG
CAAAGGCATCGACCAGAAAGGGGAGGAGCGCAGCAGTTGCATTTCCGGAACAACCTCTCTGAGGCTCCAATG
GAACGGGAAGGAGTTACGGCCTGGTACAGTGACATGGAGACCCCACTCAAAGCTGGCCCTTTCTGGAGGCTCGG
GGTCTATATTGACTTCCCAGGAGGGATCCTTTCTTCTATGGCGTAGAGTATGATTCCATGACTCTGGTTCAAA
GTTTGCCTGCAAGTTTTTCAGAACCAGTCTATGCTGCCTTCTGGCTTTCCAAGAAGGAAAACGCCATCCGGATTGT
AGATCTGGGAGAGGAACCCGAGAAGCCAGCACCGTCTTGGTGGGGACTGCTCCCTAGACTCCAGGAGCCATATC
CCAGACCTTTGCCAGCTACAGTGATGGGATTTGCATTTTAGGGTGATTGGGGGCAAAAATAACTGCTGATGGTA
GCTGGCTTTTGAAATCCTATGGGGTCTCTGAATGAAAACATTCTCCAGCTGCTCTCTTTTGCTCCATATGGTGCT
GTCTCTATGTGTTTGCAGTAATTCTTTTTTTTTTTTTTTTGGAGACGGAGTCTCGCACTGTTGCCAGGCTGGA
GTGCAGTGGCGTGATCTTGGCTCACTGCAAGCTCCGCCTCCCGAGTTCAAGCAATTCTCTGCTCAGCCTCCCCG
AGTAGCTGGGATTACAGGTGCCTGCCACCACACCCAGCTAACGTTTTGTATTTTAGTAGAGATGGGGTTTACC
ATGTTGGCCAGGCAGATCTCAAACCTCTGACCTCGTGATGCACTCACCTCGGCCTCCCAAAGTGCTGGGATTACA
GGCGTGAGCCACTGCGCCCTGCCTGTTTGTAGTAATTTTAGGCACCAAATCTCCCTCATCTTCTAGTGCCATTCT
TCCTCTCTGTTTCAGGTAAATGTACACTGTGCCAGAATGGATGACCAGGAACCTTCAAGAGTGGCTGAAAAGAT
TGCAGAGTTATCATAATAAATTGCTAAGTTGCGTATTTCCT

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FIGURE 4746

MQFGELLA AVRKAQANV MLFLEEKEQAALSQANGIKAHLEYRSAEMEKSKELEETMAAISNTVQFLEEYCKFKNT
EDITFPSVYIGLKD KLSGIRKVITESTVHLIQ LLENYKKKLQEF SKEEEYDIRTQVSAIVQRKYWTSKPEPSTRE
QFLQYVHDITFDPDTAHKYLRLQEENRKVTNTTPWEHPYPDLPSRFLHWRQVLSQQSLYLHRYFFEVEIFGAGTY
VGLTCKGIDQKGEERSSCISGNNFSWSLQWNGKEFTAWYSDMETPLKAGPFWRLGVYIDFPGGILSFYGVEYDSM
TLVHKFACKFSEPVYAAFWSKKENAIRIVDLGEEPEKPAPSLVG TAP

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FIGURE 4747

ACTGCCGGCCTGCGCGGTACTCACTGCCGGCCTCCGCGGTACCCACTGCCGGCCTCCGCGCTACCCGGCCGCAGC
GCGCGAGTCACATGGAAGCTCCTGAGGAGCCCGCGCCAGTGCGCGGAGGCCCGGAGGCCACCCTTGAGGTCCGTG
GGTCGCGCTGCTTGCGGCTGTCCGCCCTCCGAGAAGAGCTGCGGGCGCTCTTGGTCCTGGCTGGCCCCGCGTTCT
TGGTTCAGCTGATGGTGTTCCTGATCAGCTTCATAAGCTCCGTGTTCTGTGGCCACCTGGGCAAGCTGGAGCTGG
ATGCAGTCACGCTGGCAATCGCGGTTATCAATGTCACTGGTGTCTCAGTGGGATTTCGGCTTATCTTCTGCCTGTG
ACACCCTCATCTCCCAGACGTACGGGAGCCAGAACCTGAAGCACGTGGGCGTGATCCTGCAGCGGAGTGCGCTCG
TCCTGCTCCTCTGCTGCTTCCCCTGCTGGGCGCTCTTTCTCAACACCCAGCACATCCTGCTGCTCTTCAGGCAGG
ACCCAGATGTGTCCAGGCTTACCCAGACCTATGTCACGATCTTCATTCCAGCTCTTCTGCAACCTTTCTTTATA
TGTTACAAGTTAAATATTTGCTCAACCAGGGAATTGTACTGCCCCAGATCGTAACCTGGAGTTGCAGCCAACCTTG
TCAATGCCCTCGCCAACTATCTGTTTCTCCATCAACTGCATCTTGGGGTGATAGGCTCTGCAGTGGCAAACCTTGA
TTTCCAGTACACCCTGGCTCTACTCCTCTTTCTCTACATCCTCGGGAAAAAACTGCATCAAGCTACATGGGGAG
GCTGGTCCCTCGAGTGCTGCAGGACTGGGCGCTCCTTCCCTCCGCTGGCCATCCCCAGCATGCTCATGCTGTGCA
TGGAGTGGTGGGCCTATGAGGTCGGGAGCTTCCTCAGTGGCATCCTCGGCATGGTGGAGCTGGGCGCTCAGTCCA
TCGTGTATGAACTGGCCATCATTGTGTACATGGTCTTGCAGGCTTCAGTGTGGCTGCCAGTGTCCGGGTAGGAA
ACGCTCTGGGTGCTGGAGACATGGAGCAGGCACGGAAGTCTCTACCGTTTCCCTGCTGATTACAGTGCTCTTTG
CTGTAGCCTTCAGTGTCTGTGTTAAGCTGTAAGGATCACGTGGGGTACATTTTACTACCGACCGAGACATCA
TTAATCTGGTGGCTCAGGTGGTTCCAATTTATGCTGTTTCCACCTCTTTGAAGCTCTTGCTTGCACGAGTGGTG
GTGTTCTGAGGGGGAGTGGAATCAGAAGGTTGGAGCCATTGTGAATACCATTGGGTACTATGTGGTTGGCCTCC
CCATCGGGATCGCGCTGATGTTTGCAACCACACTTGGAGTGATGGGTCTGTGGTCAGGGATCATCATCTGTACAG
TCTTTCAAGCTGTGTGTTTCTAGGCTTTATTATTACAGCTAAATTGGAAAAAAGCCTGTCAGCAGGCTCAGGTAC
ACGCCAATTTGAAAGTAAACAACGTGCCTCGGAGTGGGAATTCTGCTCTCCCTCAGGATCCGCTTCACCCAGGGT
GCCCTGAAAACCTTGAAGGAATTTTAACGAACGATGTTGGAAGACAGGCGAGCCTCAGTCAGATCAGCAGATGC
GCCAAGAAGAACCTTTGCCGGAACATCCACAGGACGGCGCTAAATTGTCCAGGAAACAGCTGGTGTGCGGCGAG
GGCTTCTGCTCCTGGGGGTCTTCTTAATCTTGCTGGTGGGGATTTTAGTGAGATTCTATGTCAGAATTCAGTGAC
GTGGTAGGAAAGAAAGTCAGGTGAGTGATGCTTTTGAGCTTACACACAATTCACAGGCCCCACCAGTGACAATTT
ACTGTGAGTTAATGTCATTCAGGTGTGCCCATGGATTTTGAGGGCTGGAAATGCAAAGACACATTTTTCTATAAA
AAGAAAAAGCAACTAAGGTTAAAAGCTATATTGTGGCCCAAGACACTGTCTGAAAGATGACATGAGTAGTAATTC
ACCACTATCTGAACCAAGCAAGGATCAATGTGCTGACTGCATTGGCCAATGGCTTTGATACTTCTGCTATTTTTT
TAGACACAAACCCATAAACTAACTGCTTAAGAATTCATACTGCTTGAATTATGTAAATATATTTTTACAGTATAT
CTTTCCTTGGGCCTTAGATTACTATTCAGTGGGCAAATGGTATTTGTTTTTGTAAAAATTTTTTTTTTAATAGAC
GGAAGTCTTGCTCTGTCATGCAGGCTGGAGTGCAGGTGGTGCATCATAGCTCACTGCAGCCTCGAACTCTTGGGC
TTCAAGCAATCCTCCTGTGTCAGCCACCAGAGTAGCTGAGACTACAGGGGTATGCCACCATGCCAGCTGGCATT
TGTTAATCTTCATTTGAGGTCTAGATCTAGGCACTGTGGACACTGAAAAACAGTTGGGAAATCTTTCGAGCTGTG
GAAATCCAAACAAAGACTGATAATTCCTGGTAGGGGTGTGTGCGTGACGTACTGCAGCCTCAACCTCCTGGGCTC
AAGTGATCCTCCACCTCAGCCTCCTGAGTAGCTGAGACCACAGGCGTGTGCCACCACGCCAGCTAATTTTTTA
TACCAGGGTCTACCCTTTGTTCAGGCTGGTCTTGAATTCCTGGGATCAAGCAATCCTTCCACCTTGCCCTCC
CAAAGTGTGGGATTATAGGCATGAGCCACCACGACTGGCCAGAGGACAAAATTTTAATAAAGGTCTTAGCTTAA
GCAGTAATCCTACTTCATTAAGCCTTCTTGGGGTGCAGTACACACCGTTAATTCAGCAACCTCAGTACATACTA
AGTATGCTCAGTGCTGTGAAAGTGATTACACCAAATTAAGTCATTCTTATCACACCCAATCAAAAGTCAAGAAG
CCAGGGATAAAAGCACCTCAGGCACATAACATTAATCTAGTAATGTAATTCTCTGCACATCCAGCTGGTGAACT
GCGTGCTGTAAGCTGGGACCAGCTTTGTCCATAACTGCTGAGAGAATTGCTGAAGCTCTAGGAATAATTTTGCC
TGCCCGGTTGCTCACCAGTTGTAGCTTGCCAGCTCCCAACACCCTTCTGTTGTTGTTCCGACATACCGAGGACCAACTGGTCTA
ATACTGACATTTCTTTTGATAAAACCTCCAGCCTTCTGTGTTGTTCCGACATACCGAGGACCAACTGGTCTA
CATGGATGCCCTGAACATGCAATCTTTCTTCCAAAATAAAACATTAAATAGAG

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FIGURE 4748

MEAPEEPAPVRGGPEATLEVRGSRCLRLSAFREELRALLVLAGPAFLVQLMVFLISFISSVFCGHLGKLELDAVT
LAIIVINVTGVS VG FGLSSACDTLISQTYGSQNLKHVG VILQRSALVLLLCCFPCWALFLNTQHILLFRQDPDV
SRLTQTYVTIFIPALPATFLYMLQVKYLLNQGIVLPQIVTGVAANLVNALANYLFLHQLHLGVIGSALANLISQY
TLALLFLYILGKKLHQATWGGWSLECLQDWASFLRLAIP SMLMLCMEWWAYEVGSFLSGILGMVELGAQSIVYE
LAIIVYMLAGFSVAASVRVGNALGAGDMEQARKSSTVSLLITVLF AVAFSVLLLSCKDHSVGYIFTTDRDIINLV
AQVVP IYAVSHLFEALACTSGGVLRGSGNQKVGAI VNTIGYYVGLPIGIALMFATTLGVMGLWSGIIICTVFQA
VCFLGFIIQLNWKKACQQAQVHANLKVNNVPRSGNSALPQDPLHPGCPENLEGILTNDVGKTGEPQSDQQMRQEE
PLPEHPQDGAKLSRKQLVLRGLLLLGVFLILLVGILVRFYVRIQ

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FIGURE 4749

CTCTGAGCAGAACTGACAGCATGAAGGCACTCCTGGCCCTGCCGCTGCTGCTGCTTCTCTCCACGCCCCCGTGTG
CCCCCAGGTCTCCGGGATCCGAGGAGATGCTCTGGAGAGGTTTTGCCTTCAGCAACCCCTGGACTGTGACGACA
TCTATGCCCAGGGCTACCACTCAGACGGCGTGACCTCATCTACCCCTCGGGCCCCAGTGTGCCTGTGCCCGTCT
TCTGTGACATGACCACCGAGGGCGGGAAGTGGACGGTTTTCCAGAAGAGATTCAATGGCTCAGTAAGTTTCTTCC
GCGGCTGGAATGACTACAAGCTGGGCTTCGGCCGTGCTGATGGAGAGTACTGGCTGGGGCTGCAGAACATGCACC
TCCTGACACTGAAGCAGAAGTATGAGCTGCGAGTGGACTTGGAGGACTTTGAGAACAACACGGCCTATGCCAAGT
ACGCTGACTTCTCCATCTCCCCGAACGCGGTGACGCGAGAGGAGGATGGCTACACCCCTCTTGTGGCAGGCTTTG
AGGATGGCGGGGACAGGTGACTCCCTGTCTACACAGTGGCCAGAAGTTCTCTACCTTCGACCGGGACCAGGACC
TCTTTGTGCAGAACTGCGCAGCTCTCTCCTCAGGAGCCTTCTGGTTCCGAGCTGCCACTTTGCCAACCTCAATG
GCTTCTACCTAGGTGGCTCCCACCTCTCTTATGCCAATGGCATCAACTGGGCCCAGTGGAAGGGCTTCTACTACT
CCCTCAAACGCACTGAGATGAAAATCCGCCGGGCCTGAAGGGCTGGCCCCCTCAGGCACCTTCTCTCCCTGGAC
ACCCATGGTCTCCATGAGTGCTCCCTCTGCTGCCCCGTATGCATGCTTCTGCTGATTCCCGAGCACCAACTCCTT
ACAAGGGGGCCTTGTGGCTCTCAGCCATGCCACATCCCTGTACACACCCAGGGCATCCATTCTAAGCCAGACC
CGGCTCCCCTACACCTGAAGTTACACTGCCAGCAGTTCCCAGGCCTCTTCCGAGAGGCACATGGTTCTAGCCTG
GACCTGGCTGGGCTCCATGAGAATGAGTTGCCTCCACCCTGTCCCAACAGCTGACAGCCAGGAGCCACTCTCCCA
GCTGCAGGCCTTTGTGGTCCATCTTGTCTGCTTCTCACTGTGGACCCCTGTCTGGGCCACCCTAGTGTGCTAA
GCTGAGCAGTGCAGTGTGAACAGGGCCCATGGTGTATTCTAGGCCACAGCCAGCACTCCTCTGGGCTGCTCTCA
AACCATGTCCCATTCTCAGCATCCCTCCCACCACTTACTCCCTGTGGTGAGTACCGTGGAACCCAGCCCACC
TCACTATCATACTCAGCTTCCCCTGATGGCCCATCCCAGCCCCTGAAGCTCTATGCCAAGAACACAGCTACCGCA
CACCACCCTGAAACAGCCACAGCCAAGGTAGGCATGCATATGAGGTCTTCCCCATACCCTCTGGGTGTTGAGAGG
TTTAGCCACATGAGGGAGCAGAGGACAATCTCTGCAGGGCTGGGAGTGGGTAGGGACTGAAGGTCTCAATAAACC
TTCAGAACCTGAATGAACTGGCTTCATACACACAAACATATTTGTTTATCCCCCAAATGTAGGCACCTGGCTCCT
CCTTGCTCCCCTGCTGATGGTGTCTACCCCGAACTCCAAAAATTACACCTGGAGTCAGGTGCAGAAGGGAACCT
TGTATTTACAGGCCTCATTTTGTATGGCAAAAAGACAGTGTAATAATA

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FIGURE 4750

CGGAGACCCCGCGCTGGGGACGGGAGGCCGGCGAGCCTCGGGACCTCTGAAAGCCTTGAGGAGGCGCGGGGACA
CCATGGCCGAGCCTCTGAAGGAGGAAGACGGCGAGGACGGCTCTGCGGAGCCCCCGGGCCCGTGAAGGCCGAAC
CCGCCCCACACCGCTGCCTCTGTAGCGGCCAAGAACCTGGCCCTGCTTAAAGCCCGCTCCTTCGATGTGACCTTTG
ACGTGGGCGACGAGTACGAGATCATCGAGACCATAGGCAACGGGGCCTATGGAGTGGTGTCTCCGCCCCGCC
GCCTCACCGGCCAGCAGGTGGCCATCAAAAAGATCCCTAATGCTTTTCGATGTGGTGACCAATGCCAAGCGGACCC
TCAGGGAGCTGAAGATCCTCAAGCACTTTAAACACGACAACATCATCGCCATCAAGGACATCCTGAGGCCACCG
TGCCCTATGGCGAATTCAAATCTGTCTACGTGGTCTTGACCTGATGGAAAGCGACCTGCACCAGATCATCCACT
CCTCACAGCCCCCTCACACTGGAACACGTGCGCTACTTCTGTACCAACTGCTGCGGGGCCTGAAGTACATGCACT
CGGCTCAGGTTCACACCGTGACCTGAAGCCCTCCAACCTATTGGTGAATGAGAAGTGTGAGCTCAAGATTGGTG
ACTTTGGTATGGCTCGTGGCCTGTGCACCTCGCCCGCTGAACATCAGTACTTCATGACTGAGTATGTGGCCACGC
GCTGGTACCGTGCGCCGAGCTCATGCTCTCTTTGCATGAGTATACACAGGCTATTGACCTCTGGTCTGTGGCT
GCATCTTTGGTGAGATGCTGGCCCGGCCAGCTCTTCCAGGCCAAAACCTATGTACACCAGCTACAGCTCATCA
TGATGGTGCTGGGTACCCCATCACCAGCCGTGATTGAGGCTGTGGGGGCTGAGAGGGTGCGGGCCTATATCCAGA
GCTTGCCACCACGCCAGCCTGTGCCCTGGGAGACAGTGTACCCAGGTGCCGACCGCCAGGCCCTATCACTGCTGG
GTCGCATGCTGCGTTTTGAGCCAGCGCTCGCATCTCAGCAGCTGCTGCCCTTCGCCACCCTTTCTGGCCAAGT
ACCATGATCCTGATGATGAGCCTGACTGTGCCCCGCCCTTTGACTTTGCCTTTGACCGCGAAGCCCTCACTCGGG
AGCGCATTAAGGAGGCCATTGTGGCTGAAATTGAGGACTTCCATGCAAGGCGTGAGGGCATCCGCCAACAGATCC
GCTTCCAGCCTTCTCTACAGCCTGTGGCTAGTGAGCCTGGCTGTCCAGATGTTGAAATGCCAGTCCCTGGGCTC
CCAGTGGGGACTGTGCCATGGAGTCTCCACCACCAGCCCCGCCACCATGCCCCGGCCCTGCACCTGACACCATTG
ATCTGACCCTGCAGCCACCTCCACCAGTCAGTGAGCCTGCCCCACCAAAGAAAGATGGTGCCATCTCAGACAATA
CTAAGGCTGCCCTTAAAGCTGCCCTGCTCAAGTCTTTGAGGAGCCGGCTCAGAGATGGCCCCAGCGACCCCTGG
AGGCTCCTGAGCCTCGGAAGCCGGTGACAGCCCAGGAGCGCCAGCGGGAGCGGGAGGAGAAGCGGCGGAGGCGGC
AAGAACGAGCCAAGGAGCGGGAGAAACGGCGGCAGGAGCGGGAGCGAAAGGAACGGGGGGCTGGGGCCTCTGGGG
GCCCCCTCCACTGACCCCTTGGCTGGACTAGTGCTCAGTGACAATGACAGAAGCCTGTTGGAACGCTGGACTCGAA
TGGCCCCGCCCCGAGCCCCAGCCCTCACCTCTGTGCGGGCCCTGCCCCAGCGCCAACGCCAACCCCAACCCAG
TCCAACCTACCAGTCCCTCCTGCGCCCTGTAGCCAGCCCACTGGCCCCGAACCACAATCTGCGGGCTCTACCT
CTGGCCCTGTACCCAGCCTGCCTGCCACCCCTGGCCCTGCACCCACCCCACTGGCCCTCCTGGGCCCATCC
CTGTCCCCGCGCCACCCAGATTGCCACCTCCACCAGCCTCCTGGCTGCCAGTCACTTGTGCCACCCCTGGGC
TGCCTGGCTCCAGCACCCAGGAGTTTTGCCTTACTTCCACCTGGCCTGCCGCCCCCAGACGCCGGGGAGCCC
CTCAGTCTTCCATGTGAGATCACCTGATGTCAACCTTGTGACCCAGCAGCTATCTAAGTCACAGGTGGAGGACC
CCCTGCCCCCTGTGTTCTCAGGCACACCAAAGGGCAGTGGGGCTGGCTACGGTGTGGCTTTGACCTGGAGGAAT
TCTTAAACCAGTCTTTGACATGGGCGTGGCTGATGGGCCACAGGATGGCCAGGCAGATTACAGCCTCTCTCTCAG
CCTCCCTGCTTGGCTGACTGGCTCGAAGGCCATGGCATGAACCCTGCCGATATTGAGTCCCTGCAGCGTGAGATCC
AGATGGACTCCCCAATGCTGCTGGCTGACCTGCCTGACCTCCAGGACCCCTGAGGCCCCAGCCTGTGCCTTGCT
GCCACAGTAGACCTAGTTCCAGGATCCATGGGAGCATTCTCAAAGGCTTTAGCCCTGGACCCAGCAGGTGAGGCT
CGGCTTGGATTATTCTGCAGGTTTCATCTCAGACCCACCTTTAGCCTTAAAGCAGCCACCTGAGCCACCACCGAGC
CATGGCAGGATCGGGAGACCCCAACTCCCCCTGAACAATCCTTTTCAGTATTATATTTTATTATTATTATGTTA
TTATTACACTGTCTTTTTTGCATCAAAATGAGGCCTGTGAAATACAAGGTT

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FIGURE 4751

CCAGGAGCCCCAGTTACCGGGAGAGGCTGTGTCAAAGGCGCCATGAGCAAGATCAGCGAGGCCGTGAAGCGCGCC
CGCGCCGCCTTCAGCTCGGGCAGGACCCGTCCGCTGCAGTTCCGGATCCAGCAGCTGGAGGCGCTGCAGCGCCTG
ATCCAGGAGCAGGAGCAGGAGCTGGTGGGCGCGCTGGCCGCAGACCTGCACAAGAATGAATGGAACGCCTACTAT
GAGGAGGTGGTGTACGTCCTAGAGGAGATCGAGTACATGATCCAGAAGCTCCCTGAGTGGGCCGCGGATGAGCCC
GTGGAGAAGACGCCCCAGACTCAGCAGGACGAGCTCTACATCCACTCGGAGCCACTGGGCGTGGTCCTCGTCATT
GGCACCCTGGAACTACCCCTTCAACCTCACCATCCAGCCCATGGTGGGCGCCATCGCTGCAGGGAACTCAGTGGTC
CTCAAGCCCTCGGAGCTGAGTGAGAACATGGCGAGCCTGCTGGCTACCATCATCCCCCAGTACCTGGACAAGGAT
CTGTACCCAGTAATCAATGGGGGTGTCCCTGAGACCACGGAGCTGCTCAAGGAGAGGTTTCGACCATATCCTGTAC
ACGGGCAGCACGGGGGTGGGGAAGATCATCATGACGGCTGCTGCCAAGCACCTGACCCCTGTCACGCTGGAGCTG
GGAGGGAAGAGTCCCTGCTACGTGGACAAGAACTGTGACCTGGACGTGGCCTGCCGACGCATCGCCTGGGGGAAA
TTCATGAACAGTGGCCAGACCTGCGTGGCCCCCTGACTACATCCTCTGTGACCCCTCGATCCAGAACCAAATTGTG
GAGAAGCTCAAGAAGTCACTGAAAGAGTTCTACGGGGAAGATGCTAAGAAATCCCGGGACTATGGAAGAATCATT
AGTGCCCGGCACCTCCAGAGGGTGATGGGCCTGATTGAGGGCCAGAAGGTGGCTTATGGGGGCACCGGGGATGCC
GCCACTCGCTACATAGCCCCCACCATCCTCACGGACGTGGACCCCCAGTCCCCGGTGATGCAAGAGGAGATCTTC
GGGCCTGTGCTGCCCCATCGTGTGCGTGCGCAGCCTGGAGGAGGCCATCCAGTTCATCAACCAGCGTGAGAAGCCC
CTGGCCCTCTACATGTTCTCCAGCAACGACAAGGTGATTAAGAAGATGATTGCAGAGACATCCAGTGGTGGGGTG
GCGGCCAACGATGTCATCGTCCACATCACCTTGCACTCTCTGCCCTTCGGGGGCGTGGGGAACAGCGGCATGGGA
TCCTACCATGGCAAGAAGAGCTTCGAGACTTTCTCTCACCGCCGCTCTTGCTGGTGGAGCCTCTGATGAATGAT
GAAGGCCTGAAGGTGAGATAACCCCCGAGCCCGGCCAAGATGACCCAGCACTGAGGAGGGGTTGCTCCGCCTGGC
CTGGCCATACTGTGTCCCATCGGAGTGGGACCACCCTCACTGGCTCTCCTGGCCCTGGGAGAATCGCTCCTGCA
GCCCCAGCCCAGCCCCACTCCTCTGCTGACCTGCTGACCTGTGCACACCCCACTCCACATGGGGCCAGGCCTCA
CCATTCCAAGTCTCCACCCCTTTCTAGACCAATAAAGAGACGAATACAATTTTCTAACTC

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FIGURE 4752A

AACTGGAAGGCGCCCGTCTTTCTTTGACTGGAGCGGACCCGCGGACGCAACCGCCTCGCCAGCCGGAGCCAG
CGCGAGCTCGGCACGGTGGACACCCGGTCCGAGGCCGGCAAGCCGGCTGGTGCCCGAGTCGGCCAAGCATGGGCA
ACCACTCAGGACGGCCCGAGGATCCGGAACCAGGGGCCCTTTACAACAATAAACGGACAGGCATTCCAGCCCCAC
GGGAATTTTTCAGTAAGTGTCTCAAGAGAGAGGTCTGTGCCACGTGGTCCCTCCAACCCAGGAAATCAGTGTCCA
GTCCAACCTTCTTCCAACACTCCCACTCCTACGAAACACCTGAGGACCCCTTCCACAAAGCCCAAGCAAGAGAATG
AAGGTGGAGAAAAGGCTGCGCTTGAGTCCCAAGTTCGGGAACCTTTTGGCAGAAGCCAAAGCAAAAGATAGTGAAA
TTAACAGGCTTCGAAGTGAATAAAGAAATACAAAGAGAAAAGGACTCTGAACGCTGAGGGGACTGATGCTTTGG
GCCCCAATGTGCGATGGAACATCAGTCTCCCCAGGTGACACGGAACCTATGATAAGAGCTCTTGAGGAGAAGAACA
AGAAGCTTTCAGAAAGAGCTTTCCGATCTAGAGGAAGAAAACCGGGTCTGAAGGAGAAACTGATCTATCTTGAGC
ACTCCCCAAATTCAGAAGGGGCGAGCAAGTCACACTGGCGACAGCAGCTGCCCAACATCCATAACTCAAGAGTCAA
GCTTCGGAAGCCCAACTGGAATCAGATGTCCAGTGACATTGATGAGTATAAAAAAACATACATGGAATGCAT
TACGGACATCAGGCTCCTCAAGTAGCGATGTTACCAAAGCTTCTTTGTGCGCAGATGCTTCCGACTTTGAGCACA
TTACAGCAGAGACACCCTCAAGGCCCTGTCTCCACCAGTAACCCCTTTAAGAGTTCAAAGTGTCTACTGCTG
GGAGTTCCCCAAACAGCGTAAGTGAATTGTCCCTGGCTTCCCTCACAGAGAAGATACAAAAGATGGAAGAAAACC
ACCATAGCACTGCAGAAGAACTACAGGCTACTCTACAAGAATTATCAGACCAGCAACAAATGGTACAGGAATTGA
CAGCTGAAAATGAGAAGCTGGTGGATGAAAAAGCATTTTAGAGACATCCTTTATCAGCATCGAGAGAGGGCAG
AGCAGCTAAGTCAAGAAAATGAGAAGCTGATGAATCTTTTACAAGAGCGAGTAAAGAATGAAGAGCCCACCACTC
AGGAAGGAAAAATTATTGAAGTGGAGCAGAAGTGCACAGGTATTCTTGAACAGGGCCGCTTTGAAAGAGAGAAGC
TACTCAACATTTCAGCAGCAGTTGACCTGTAGCTTGCAGGAAGTTGAGGAAGAAAACCAAGGAGCTTTAGAAATGA
TTAAACGTCTGAAGGAAGAAAATGAAAACTGAATGAGTTTCTAGAACTGGAACGGCATAATAATAACATGATGG
CCAAAACCTTTGGAAGAGTGTAGAGTTACCTTGAAGGGCTAAAAATGGAGAATGGATCTTTGAAGTCTCATTTGC
AGGGTGAGAAGCAGAAAGCCACAGAGGCCAGTGCTGTGGAGCAGACGGCAGAGAGCTGCGAAGTTCAAGAAATGT
TGAAAGTAGCCCGAGCAGAGAAAGATCTACTGGAAGTGTCTTGCAATGAGCTCAGACAAGAATTACTAAAGGCAA
ACGGTGAAATTAACATGTTTCCAGTCTGCTGGCCAAGGTGGAAGGATTATTTCATACCTGAAGGAGATATGTG
ATCACCAGCCGAACAGCTGAGCAGAACCAGCCTAAAGCTGCAAGAAAAAGCATCAGAGAGTGATGCAGAGATCA
AAGACATGAAAGAAACCATATTTGAATTGGAAGATCAGGTGGAACAGCACCCGGGCTGTCAAGTTACACAATAATC
AACTCATCAGTGAGCTAGAAAGTAGTGTGATCAAGCTGGAGGAACAGAAGTCAGACCTGGAGAGGCAGCTGAAGA
CTCTGACCAAGCAGATGAAGGAGGAGACCGAGGAATGGAGGCGGTTCCAGGCGGATCTGCAGACCGCAGTGGTGG
TGGCCAATGACATCAAGTGTGAGGCCAGCAGGAGCTGCGCACCGTGAAAGAGGAACTGCTGGAGGAGGAGGAGA
AGAATGCCCCGGTTGCAGAAGGAGCTGGGGGATGTGCAGGGCCACGGCAGGGTGGTCACCAGCAGAGCCGCCCTC
CACCTGTGGATGAAGAGCCAGAGTCTCTGAGGTGATGCTGCTGGTTCGGTGGCTGGTGTCTGTGTTAGCAGAA
CATCTCCAACACCCCCAGAGTCGGCAACCACCGTTAAGTCACTTATCAAGTCATTGACTTGGGACGCCAGGTG
GAGCTGGACAGAATATTTCTGTCCATAAGACCCCCAGAAGTCCCTAAGTGGGATACCAAGTGAAGTGTGCTCCAG
CAGCTGCTGTCTCTCAATGCAGAGGCATTGACTTACAGCAGTGTGCGGCCAGCCAGCAGAGGGGTGACTCAAC
GCTTGGACCTTCCCTGACCTTCCCTCTCAGATATTCTAAAGGGAAGGACTGAGACCCTGAAGCCAGACCCCCACC
TCCGCAAGAGTCCCTCACTAGAGTCACTGAGCAGACCCCCGTCCTGTTGGGCTTTGGGGACACAAGACTGCTGAGTG
CTTCCACCCGGGCATGGAACCACAAAGCAAACCTCAGTGTGGAAAGAAAAGACCCTCTGGCAGCCTTGGCCCCGGG
AATACGGTGGTTCCAAGCGCAATGCTCTACTGAAATGGTGCCAGAAGAAGACACAAGGTTATGCGAACATTGACA
TCACCAATTTTCAGCAGCAGCTGGAGCGATGGCCTGGCCTTCTGTGCTCTGCTCCACACCTACCTGCCTGCCACA
TCCCCTACCAGGAGCTGAATAGTCAGGAGAAAAAGAGGAATCTCTTGTGGCATTGAAAGCGGCTGAAAGTGTAG
GCATCAAAACCCAGCCTGGAACCTCAGCGAGATGCTGTACACAGACCGGCCCGACTGGCAGAGTGTGATGCAGTACG
TGGCCCAATCTACAAGTACTTTGAGACGTAACCCCTGGAGGGCTGGGGCAGCCACCATTGCCACCTACTGCAGC
TTTTCTGGAAGCGCCTGATTACTGTCCACTGACCTGCTCTGCCCACCACCCAGCTGCCTAGACTTCAAAGACA
GGCTCAATCCAAGTGGACCAACACCCAAATAAGAAACAGAGTGGGTCCCACGATGTACCTGTCTGAAATGCAAT
GCAGCTGGACTGTAAATTGGGGACTCTTTGATCTCTTGTGGGATGCTTCTAAAGAGGGCAGCCTCCCTCCTTCCA
GACCAAGACCCACACCCAGGCTTGTGTTGCTGATTATTTGGGTGGCTGAACGAACACATTATCTGCAGAAATT
CAGACAAAGAACATCTCAAATCAGTCTTTTGGTTGCTGTTGTTAAAAATATCCCGGCTTTGCCTTTATGAAACC
TTTGCCCTTGGCTGGGTGTGGTAGCTCGTGGCTGTAATCCAGCACTTTAGGAAGCCAAGGCAGTAGGATCGTTT

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FIGURE 4752B

GAGCCCAGGAGTTTCGAGGCTGCAGTGAGCTATGAGCATACCACTGCACTCCAGCCTGTGTGAAAGAGCCAGACCC
TGTCTC

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FIGURE 4753

MGNHSGRPEDPEPGAFTTTKRTGIPAPREFSVTVSRERSVPRGSPNPRKSVSSPTSSNTPTPTKHLRTPSTKPKQ
ENEGGEKALESQVRELLAEAKAKDSEINRLRSELKKYKEKRTLNAEGTDALGPNVDGTSVSPGDTEPMIRALEE
KNKNFQKELSDLEENRVLKEKLIYLEHSPNSEGAASHTGDSSCPTSITQESSFGSPTGNQMSSDIDEYKKNIHG
NALRTSGSSSDVTKASLSPDASDFEHITAETPSRPLSSTSNPFKSSKCSTAGSSPNSVSELSLASLTEKIQKME
ENHHSTAEELQATLQELSDQQQMVQELTAENEKLVDEKTILET SFHQHRERAEQLSQENEKLMNLLQERVKNEEP
TTQEGKIIIELEQKCTGILEQGRFEREKLLNIQQQLTCSLRKVEEENQGALEMIRLKEENEKLNFLERHNNN
MMAKTLEECRVTLGLEGLKMENGLKSHLQGEKQKATEASAVEQTAESCEVQEMLKVARAEKDLELSCNELRQELL
KANGEIKHVSSLLAKVEKDYSYLKEICDHQAEQLSRTSLKLQEKASESDAEIKDMKETIFELEDQVEQHRVAVKLH
NNQLISELESSVIKLEEQKSDLERQLKTLTKQMKETE EWRRFQADLQTAVVVANDIKCEAQQELRTVVRKLLLE
EEKNARLQKELGDVQGHGRVVT SRAAPPPVDEEPESSEVDAAGRWPVGVSVRTSPTTPESATTVKSLIKSFDLGR
PGGAGQNISVHKTPRSPSLGIPVRTAPAAVSPMQRHSTYSSVRPASRGVTQRLDLPDLPLSDILKGR TETLKP
PHLRKSPSLESLSRPPSLGFGDTRLLSASTRAWKPQSKLSVERKDPLAALAREYGGSKRNALLKWCQKKTQGYAN
IDITNFSSSWSDGLAFCALLHTYLP AHIPYQELNSQEKRNLLLAFAEAESVGIKPSLELSEMLYTDRPDWQSV
QYVAQIYKYFET

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FIGURE 4754

CGCGGTGCCTTTTGTAGCTCCTTGTCCACGCTCCGCCCCCTGTGGGAACGGCCGCGCTCCCCGCAGCTGGTCATCCG
CCGCCTGCCTCCGGGCTCACCAGGAGCAGCTGGAGGAGCAGCTGCGCCCGTTGCCAGCACACGACTACTTTCGA
GTTCTTCGCGCCGACCTGAGTCTTTATCCTCATCTCTACTCAAGAGCATAACATTAATTTTAGGAATCCTGTATGA
CATCCTTCTTTTGTAGATCGTTTTGTATGGGATATATCTTCCTTGACAGCAAAGATCCAGAATATAAGAAGTTTT
TAGAAACCTACTGTGTGGAGGAAGAGAAGGCCAGTGCCAACCCTGAGACTCTGCTGGGGGAGATGGAGGCGAAGA
CAAGAGAGCTCATTGCTAGAAGAACCACACCTCTTTTGGAAATATATTAATAAGAAATTAGAAAAGCAGAGAA
TTCGAGAAGAGAAGCGAGAAGAACGGAGGAGGAGAGAGTTAGAAAAGAAACGTTTTCGCGGAAGAGGAAAAAGAA
GAAGAAGAGAAGAAGAAAGATGCAAAAAAAAAAAGAGAGACAGATAAACAGAAGAAATTTGCAGAGAAAGAAGTA
AGGATTAAGCTTCTTAAGAAACCAGAAAAGGGAGAGGAACCAACCACAGAGAAACCAAGAAAGAGAGGAGAGGAG
ATTGATACTGGAGGTGGCAAGCAGGAATCCTGTGCCCCCGGTGCAGTCGTAAAGCCAGGCCCGTGGAAGGCTCG
CTGGAGGAGCCCCAGGAGACGTACACAGCGGCAGTGATAAAGAGCACAGGGATGTGGAGAGATCTCAAGAACAA
GAATCTGAAGCACAAAGACACCATGTGGATGATGGCAGGAGGCACAGAGCTCACCACGAGCCTGACCGGCTTTCC
AGAGGGAGTGAGGATGAGCAGAGATGGGGGAAAGGACCTGGCCAAGACAGAGGGAAGAAGGGGAGCCAGGACAGC
GGGGCTCCGGGGGAGGCCATGGAGAGACTGGGAAGAGCGCAGAGGTGTGACGACAGTCCAGCACCCAGAAAAGAG
CGACTGGCAAACAAGGACCGGCCAGCCTTGCAGCTGTATGATCCAGGAGCTCACTTCCGAGCGCTAGAGTGTGGC
GGAAACAGGAGGATCTGCAAGGCAGAAGGTTGCGGAACCTGGTCTTGAGAAGAGGGAAGAGGCAGAGTGAGTCACT
GCACGCACCTGGCCTCCATGGACGAGCGAGGGCATCCAGAAACGTGTAAATGACCCCGAGTGTGACTGGGAAGG
AGAACTTATTCCTTACCAGGAACTGGAAGCTAAACTACAGAGGGTGACATAGAAACACGCAGAAACCATTCTA
AAGAAAGTAGTGATCTTGTATTAAATTGAGCAGAATTCTCACAGATTTTACCATTCTGTATAACTAGTATTT
GTTGTTTAGCCAAAACAGAAAATGATTTCCACTGGACAGTAGAAAAATATGTGTAAATAGGGAAGAAAGTTAGT
ATTGGATCAGTGTGAGTCCTGAAGCACTTTTCAGTGCTGTGAGAACGACATCCACTTTGGGTTTCATTTCGTTTGT
AGCAGAGGAGCTGTGAGTCACTCGTGCTTCTCGTTGGCCTCTGAGCCATGGTGTCGAGTGAAGAGTAGTTCTTGT
TTGTTACAACCTTTGTGAGTCAGCCATGCCTGCAAAGTGTGCTGTGTTTTAGTCCTGGTAGGAATATTTATCAGA
GTTACACTATATAAAACCCAACAGCTTCAACTATTGCCCTTTCAACAGTTTTGCCACTGACCGGATAAAAACGG
TTTCAGTCTTTGGATGGATGTGTTTGTGGTTTGTAAACATTACGGTTTAAACCATGGTTTAAGAATTTGCCCAA
TAACAGAAATTTTGTTCGGGAAGGGATAAACGAGATATAGCATATAGAGCCTGTTTTTGTAGTTTTAGATACTTTA
TTTGTAATAACTTAAATAGCTTTCTGAAACCGTGATTCTGTAGTTTCTTCCTTTTCAGTGAAATTGCTAAATG
TGAATGTATTTTGGCACTGCGATTTTAACCATTTATTAAATAAAAAATTTTGTAAAG

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FIGURE 4755

GTAAGACACCTTTGCAGTCCTTCCTGGGAATCGCTGAGCAGCACGGGGGCCCCCAAAATGGGACCCTGATCACTC
AGACTCTGAGCCAAGCCAACCCCACTGCCATCACTGCAGAAGAATACTTCAACCCCAACTTTGAGCTGGGCAACC
GTGATATGGGCCGCCCCATGGAAGTACCACCAAGACACAGAAGTTCAAGGCAAGCTGTGGCTGTGTGAGGAGC
ATCCCTGTCCCTGTGTGAGCAGGTGGCCCCCATCATTGACCTCATGGCCGTGAGCAATGCGCTTTTTTGCCAAGC
TCCGGGACTTCATCACCTGCGTCTGCCTCCTGGCTTCCCAGTTAAGATTGAAATCCCGATCTTCCACATCCTCA
ACGCCCCGATCACCTTCGGGAACCTCAACGGCTGCGACGAACCGGTGCCATCGGTGCGAGGCAGCCCCAGCAGCG
AGACGCCTTCCCCAGGCAGCGACTCCTCCAGCGTCAGCAGCTCCAGCTCCACGACCTCCTGXCCGCGGCTGCGAG
ATCTCCCCAGCGTTGTTTCGAGGCCCCGCGCGGCTACAGCATGATGGGCGGGCAGCGGGAGGCGGCGACCCGGGAC
GACGACGACGACCTGCTGCAATTGCGCATCCAGCAGAGCCTGCTTGAGGCGGGCAGTGAGTATGACCAGGTCACC
ATCTGGGAGGCGCTAACCAACAGCAAGCCAGGCACCCACCCCATGTCTACGAGGGTGCCTGACAGGACAGGAGC
GCCCCGCCCACGCCGAGCGCCAGCCTGCGCCCCCGGCGTCAGTGCCAGCCCTCGGCCAGCTCAGGGCCAGGT
TCCGGCGGCCACGTGTTCCGGAGCTACGACGAGCAGCTGCGGCTGGCGATGGAAGTGTGCGCGCAGGAGCAGGAG
GAGAGGCGGCGGCGCGCGGCCAGGAGGAGGAGGAGCTGGAGCGCATCCTGAGGCTCTCACTGACCGAGCAGTAG
CGCCCCCTGCCGGGACCTCGCCAGCGCCACGCGCGCCACGCCAGGGCCAGGAGCCAGACAAACCCCGGCTGC
GCGCCTGCAGAGCGGCGGCTGGAGACTGGAGCCACCGCCTCGCGGGTGCAGCAGCACAGCAGGCACGGTTCCGGG
AGGGATTGCGCATGGCCGCGGGGTACCTTCCCAGGCCAGGGCCCTGGAGGCAACTGGCACGGCTGGTCCCCCTG
CTTTGCTGTATTCTGATTCCCCAACCCGCTCCCCCTGGGCTCAGATCTGTCTCTGCTCCTAGGGCGGAGCCAGGCGGT
CCTGAGGGGGAGATGAATCCTTAGAGGAGCGCTGTCCCTATCCCTTGCTCCTTCTGGCCGGTCCGCATTTCTGTT
CACTAACCCCACTCCAGGACACTGCCCCCTGAAGCCTTTGCATCTCTGCTCTTCACTCCTGGGGGGCAGCTGAGCT
CCCCGCGTGTGTGTCACTGCTTTGTTCCAGACACAAACCAGCACGTCTAGGGCCCAGCCCCCTCCCCACCCCGG
CATTTACGCGTCAAGTGCACTTAGCGGGGTACCCGGCTCCCCCAGCCCCCACACCCGTCTGGGTCTCAGGGTGG
TTCCAGCTTCTCCTTGGGCAGCCAGAAGTTGGAGTCCCATCCCCCAAGGCACATTTTTTTTTTTTTTTTTTTGTG
ATCAGGGAGTGTGTCCAACGTAGCCCCCTGGCCTGTGCAAGCCCTGACTCCCTCATGGTGCCTCGGAGAGTGGGG
AGCATATTGGGCTGGGGTAAGCACTAGACCCAAGTAGACTGGACACAAAGGGCTCGCCCAGGGCCCTGGCGCCAC
CCCCACCCCTTCCCACCAGCTGCTGCTAGCCTCTGTGGTTGTACATCCCACTTGCCCCCACACGGAGACTGACTC
TAAAACCCCTTCATCCAATGGTGCTAACCCCCGGCTCTCCCTGCCCCACCTCACCCACCCAGAGAAGCACAGACC
CCGCCAGGGGCGAGGGGCCACCGCACACCCTTGTCGGGCTGTCTGGGACTGGCCTTCCCGGCTCAGCCAGTG
AGGCTCAGAAGGGACACAAAGAGGGATGGAAGAAAAGAACAAAGAGAACTGTTCTCCACCCCTTCCCTGAT
GCCAGGGGACACAGACTGATTCTGAGGCACAAATAAAAGAGGCTTCATACCGG

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FIGURE 4756

MTWQRGNRSFVFRGQDTSVVMEIDHRRVVYTETLALAGQDRELLAAAQPTTEEQVLSRLTAPVVTTQLDTKNI
SFERNKTGILGWRSEKTEMVNGYEAKVYGASNVELITRTRTEHLSEQHKGKVKGCKTPLQSFLGIAEQHGGPQNG
TLITQTLSQLANPTAITAEYFNPNFELGNRDMGRPMELTTKTQKFKAHLWLCEEHPLSLCEQVAPIIDLMAVSNA
LFAKLRFITLRLPPGFPVKIEIPIFHILNARITFGNLNGCDEPVPSVRGSPSSETPSPGSDSSSVSSSSSTTSC
RGCEISPALFEAPRGYSMMGGQREAAATRDDDDLLQFAIQQSLLEAGSEYDQVTIWEALTNSKPGTHPMSYEGRR
QDRSAPPTPQRQPAPPASVPSRPSSGPGSGGHVFRSYDEQLRLAMELSAQEQEERRRRARQEEEELERILRLSL
TEQ

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FIGURE 4757

TCGCCGCTGAGGATGTCCCGAAAGGGGCCGCGAGCGGAGGTGTGTGCGGACTGCAGCGCCCCGGACCCTGGCTGG
GCATCCATCAGCAGGGGTGTGCTGGTGTGTGACGAGTGTGTCAGCGTGCACCGGAGCCTGGGACGCCACATCTCC
ATTGTCAAGCACCTTCGCCACAGCGCCTGGCCTCCCACGCTGCTGCAGATGGTGCACACGCTTGCCAGCAACGGG
GCCAACTCCATCTGGGAGCACTCCCTGCTGGACCCCGCACAAAGTGCAGAGCGGCCGGCGTAAAGCCAACCCCCAA
GACAAAGTCCACCCCATCAAGTCAGAGTTCATCAGGGCCAAGTACCAGATGCTGGCATTGTGTGACAAGCTTCCC
TGCCGGGACGATGATGGAGTCACCGCCAAAGACCTCAGCAAGCAACTACACTCGAGCGTGCAGGACAGGCAACCTG
GAGACATGTCTGCGCCTGCTCTCCCTGGGTGCCAGGCCAACTTCTTCCACCCAGAGAAGGGCACCACACCTCTG
CACGTGGCTGCCAAGGCAGGACAGACACTGCAGGCCGAGCTGCTTGTAGTGTATGGGGCTGACCTGGCTCCCTT
GATGTTAATGGCCGCACACCCATTGACTATGCCAGGCAGGCGGGGCACCATGAGCTGGCGGAAAGGCTGGTTGAG
TGCCAATATGAGCTCACTGACCGGTGGCCTTCTACCTCTGTGGACGCAAGCCGGATCACAAGAATGGGCATTAC
ATCATCCACAGATGGCTGACAGATCTCGGCAAAAGTGCATGTCTCAGAGCCTTGACTTATCCGAATTGGCCAAA
GCTGCTAAGAAGAAGCTGCAGGCGCTCAGCAACCGGCTTTTTGAGGAACTCGCCATGGACGTGTATGACGAGGTG
GATCGAAGAGAAAATGATGCAGTGTGGCTGGCTACCCAAAACACAGCACTCTGGTGACAGAGCGCAGTGCCGTG
CCCTTCTGCTGCTGTTAACCCGGAATACTCAGCCACGCGGAATCAGGGGCGACAAAAGCTGGCCCGCTTTAATGCC
CGAGAGTTTGCCACCTTGATCATCGACATTCTCAACAACCTCGAGCTGTCTCTGCGGAGCCAGAGTGACCTCGAC
GACCAACACGACTACGACAGCGTGGCCTCTGACGAGGACACAGACCAGGAGCCCCCTGCGCAGCACCGGCGCCACT
CGGAGCAACCGGGCCCGGAGCATGGACTCCTCGGACTTGTCTGACGGGGCTGTGACGCTGCAGGAGTACCTGGAG
CTGAAGAAGGCCCTGGCTACATCGGAGGCAAAGGTGCAGCAGCTCATGAAGGTCAACAGTAGCCTGAGCGACGAG
CTCCGGAGGCTGCAGCGAGAGATCCACAAGCTGCAGGCGGAGAACCTGCAGCTCCGGCAGCCTCCAGGGCCGGTG
CCCACACCTCCACTCCCCAGTGAACGGGCGGAACACACACCCATGGCGCCAGGCGGGAGCACACACCGCAGGGAT
CGCCAGGCCTTTTCCATGTATGAACCTGGCTCTGCCCTGAAGCCCTTTGGGGGCCCCCTGGGGACGAGCTCACT
ACGCGGCTGCAGCCTTTCCACAGCACTGAGCTAGAGGACGACGCCATCTATTAGTGACGCTCCCTGCTGGCCTT
TACCGGATCCGGAAAGGGGTGTCTGCCTCAGCTGTGCCCTTCACTCCCTCCTCCCCGCTGCTGTCTGCTCCAG
GAGGGAAGCCGCCACACGAGCAAGCTTTCCGCCACGGCAGTGAGCCGACAGTGACTATGAGAACACGCAAAGT
GGGGACCACTGCTGGGGCTGGAAGGGAAGAGGTTTCTAGAGCTGGGCAAAGAGGAAGACTTCCACCCAGAGCTG
GAAAGCCTGGATGGAGACCTAGATCCTGGGCTTCCAGCACAGAGGATGTCATCTTGAAGACAGAGCAGGTCACC
AAGAACATTAGGAAGTGTGCGGGCAGCCAGGAGTTCAAGCATGACAGCTTCGTGCCCTGCTCAGAGAAGATC
CATTTGGCTGTGACCGAGATGGCCTCCCTCTTCCCAAAGAGGCCAGCCCTGGAGCCAGTGCGGAGCTCACTGCGG
CTGCTCAACGCCAGCGCCTACCGGCTGCAGAGTGAGTGCCGGAAGACAGTGCCCCCAGAGCCCGGCGCCCCAGTG
GACTTCCAGCTGCTGACTCAGCAGGTGATCCAGTGCGCCTATGACATCGCCAAGGCTGCCAAGCAGCTGGTCACC
ATCACCACCCGAGAGAAGAAGCAGTGACCTCTCTCCCCACACCCCTACCTGCACCCTAGGACCTCACTGGCCATA
GGAGCTGGGCCACTCCAGACATTAATCCCCACCCCAACAGAGCCACTGGCACAAAGTGCCCTTAGTGCTGCCACAC
TCCCTGGCAGCCAGGTGCCCTGGTGCCACCCCTGTGAGCCCCCTAAGGATGGGGAGGTTGGGGGGGAGGAGCT
TCTGTCCCCCACATTCCATGCACCTCCCTCTGTATATAGCATCTCCCCCTCCTAGTGAGCAGGGGCCTGCAAG
GCATCACTCCCAGCCCCCTCGCCTTCTAGGGCACCCCTCAGCAAAGGGGCGAGGTGGGGACACTCCAAGTGGGGCAGC
TCTCCGTACATGCGCCCCACCCCCATGAGCCAGTTCAGCCCTACTGGGGGCTGAGCGGGGGCATCCCTCCTTTG
TACATAGTCTCCATGGATGTCCCTGCCCTGTAGCCACCAGCCCCCTGCTGCTCTCCCTTTAATGCCATATGGCCC
CTGCCTAGGGCACAGGCCCCAACCTGTGTGCTGGGGTCCCCAGCAGCAAACACTGGAAAGTCTGTTTTTTTTTTT
TCTTTCTTCTTCCCCACCCCTTAATTTTAACTTTGTGGTAAGTGAAGTCCCCCGCGTGCCTGCGTGTGAGTGTG
TGGGCGGCAGTGCCGTTCCGGAGGCCTGGTCCATCTGGAGTTTTGAGGGGTGAGGGGACCAGAGCAGTGGGACCA
GCATGGGGATCAGCTTCCCTTCCCCACCTGGAGCCAGGGACTGTCCGGGTAGCCAGTTTTGGTCTGCCAGCTGC
CTCCCTGATCCCTCCCCACTCTCGCCCCTTCTCTATGAACCTAAATCAAAAACCACTCCCTCCATCTCCTCCTG
CTCCTGCGTGGAGGGGGAATGTGTGCTGGCTAGGGTGGAGGACTGAGCACCTGAGCCTGGGGCTGGCTCCCCGGG
GTCCCCGACTCAGCTGGTGGCTGTGGAGCTGAGTCCCCTCCCCGTAACCTCTGCAAGGCCAGCACCCACCATCAC
TACCTGCACCTGCTGTGGTCCCACCTCTGGAGGCCTGGGAACCTGGCTGCAGCCTGGGAAGGCTGGAGAGGCAG
ACGGTGGGACCCACAGCTCTCTCCCCATCCCGCTTCTTCCCTGGGGGCCAGGCCCTACCTGTGTGGTGGTGGGT
GGGCTGTCAAGACGTGTCATGTACATTTGTATCAAAAATAAAGAAGTGACCATG

5158/6881
FIGURE 4758

AGCCCTCGCGGGGGCAAGGCGGCGACCGAGGCGCGTGGGTCTGGGAAGGCGCGCGGATTTGGCCCCCTCTTCTCAC
ATCAGCGGGTCCAGGCCCCAACCGACAGACTATGGGGGCTCCGGCAACCAGGCGCTGCGTGGAGTGGCTGCTGGGC
CTCTACTTCCTCAGCCACATCCCCATCACCTGTTTCATGGACCTGCAGGCGGTGCTGCCGCGCGAGCTCTACCCA
GTCGAGTTTAGAAACCTGCTGAAGTGGTATGCTAAGGAGTTCAAAGACCCACTGCTACAGGAGCCCCCAGCCTGG
TTTAAGTCCTTTCTGTTTTGCGAGCTTGTGTTTCAGCTGCCTTTCTTTCCCATTTGCAACGTATGCCTTCCTCAA
GGAAGCTGCAAGTGGATTTCGAACTCCTGCAATCATCTACTCTGTTTCACACCATGACAACCTTAATTCCGATACTC
TCCACATTTCTGTTTGAGGATTTCTCCAAAGCCAGTGGTTTCAAGGGACAAAGACCTGAGACTTTGCATGAACGG
TTAACCTTGTGTCTGTCTATGCCCCCTACTTACTCATCCATTTCATACTTTTAATTTTCATGTTGCGGAGCCCC
TACTACAAGTATGAAGAGAAAAAGAAAAAATGAAGGAAACAACCACTGGCCCAGGGTAGAGATGCCTACAGG
GTGGTTGCTTGTGGATACAATACAAGGAACACTGCTCAGAACCCACGTCTTCAGCAGCATTTGAAACACTGGCA
GCAATGCACAAGAGCAAGATGGTGTGTCAGGAACCATGTCAAACCTCACCTTCTTCCATTTTTTTTTTTTTTTAA
GACAGTCTCACTCTGTTGCCAGGCTGGAGTAAAGGGCAGTGGCATGATCTCGGCTCACTGCAACCTCCGCCTCC
TGGGCTCAAGCCATCTTCCCTAGCCTCCCAAGTAGCTAGAACTACAGGTGTGTACCAACACGTATGGCTAATTTG
TTTTGTTTTTTTTGTGTGTGTGGAGACAGGGTTTTGCCATGTTGCCAGGTTGGTCTCGAACGCCTAGGCTCAAG
TGATCTGCCACCTCAGTCTCCCTAAGTGTGGGATTACAGACGTGAACCACTGGGCCCAGCCCCAACCTTCACC
TTCTAAGGGCACTGGGATGAACAGACCGATCGGCTTGAGGGTGGGCAAAGGGGTGTGGGCTAGGTTATAAGGAAG
TGGTACCAAATAACTGTGTGCCTGAGTTCACCGCAAGATTACTAAAAGCAGGACCAGACCAGAACTGCTAAAG
AACATGGCCTGTTTGACATGTTTCATGAGTCACCTGACCCACAGCATATATGCTTATGACTAAACCTCCACTCCT
GATTCTCAAGAGTGTATCACCTGTCAGCAAAATGAATAGTGGGATATTTTGGGCCATTTTAAATGTGAAATTTG
CCTCTTTAATGTTAATTCAAACCTATATCAATGTTTTCTTGTTCACCTCTAACCCAAGGAAAAAGAGAAAC
ATACTATGCAAAGGAAGTTTAACTTAAGTTTTCTTAAGGGTCAGCCCAACAATGACTTTTCAGTCAAATGGATT
AAACTGGAAATGTTTTTGTGTTGTTAAACAGATCATCTAGGCGAAAGTTTTTTTTGTTTGTGTTGCTTTTA
AATTAGTTTATTTCTAAATCTTAGTCTTCCACATTTCTAGAGGCCACCTGACACAAGTCCCTGTATCTGAAGTCT
AGCATCTCAAGGCTGATCTGGAAGTGTGCTAGTATGCTCCCTAGTGGATAACTTAATCTTTTAATACAGTTCCGT
CATTCCTCTTGTGTTTTCAGAAGAGAAGGTGGCTACAGCCAGGCATAACATATCCACTGTGTGCATAGAGGGTCT
CTTCACGTTGATGCTTGGCATTCCATCAGCTTTCTCTAAGTCTTTGCTCAAGTTCAACCTTAAATGATGTTAGA
CAACAGGTCCCAGTCAGTTCCTCTATTTTCAACCATTTTGCTCACAAGCCATATTGGCCCGATTAGTGGTACTG
TCTGACTCACGTGTGTGATCCAAATAAAGGTAGCTGCTG

5159/6881
FIGURE 4759

MKRKEKKNEGNNHWPRVEMPTGWLLVGYNTRNTAQNPRLOQHLKHWQQCTRARWCQEPQCOTLTFFHFFFFFFKTVS
LCCPGWSKGQWHDLGSLQPPPPGLKPSSLASQVARTTG VYQH VWL ICFVFFVCVETGFCHVAQVGLERLGSSDLP
TSVSLSAGITDVNHWAQPKPSPSKGTGMNRP IGLRVGKGVWARL

5160/6881
FIGURE 4760

GCCACCCAGCTGAGAGGAGAGGGCGCCCCGGGGACGCACTGAGATTATGAGGCTCTGGCCTCCACTGGCCACTCA
CTCGTGACCCCTTTCCACCACGGCGGAGCCTTCCAAGCCTACCTCCTGCCGTGTGGTGATCTACCTGCAGCGGGAG
ATGTCGGGGGACACCTGCCTGTGCCAGCCTCAGGGGCCAAGCCCAAGCTCAGTGGCTTCAAGGGAGGAGGGTTG
GGCAACAAGTATGTCCAGCTCAACGTGGGCGGCTCTCTGTACTACACCACTGTGCGGGCCCTGACCCGCCACGAC
ACCATGCTCAAGGCCATGTTTCAGTGGGCGCATGGAGGTGCTGACCGACAAAGAAGGCTGGATCCTCATAGACCGT
TGTGGAAGCACTTTGGCACCATTTTGAATTACCTCCGAGATGACACCATCACCTCCCTCAGAACCAGGCAAGAA
ATCAAGGAATTGATGGCTGAAGCAAAGTATTACCTCATCCAGGGGCTGGTGAATATGTGCCAGAGTGCCTGCAG
GACAAGAAGGACTCCTACCAGCCTGTGTGCAACATCCCCATCATCATCCCTAAAGGAGGAGGAGCGGCTCATC
GAATCCTCCACCAAGCCCGTGGTGAAGCTGCTGTACAACAGAAGCAACAACAAGTATTCCTACACCAGCAACTCT
GACGACCACCTGCTGAAAAACATCGAGCTGTTTGACAAGCTCTCCCTGCGCTTCAACGGCCGCGTGTCTTTCATC
AAGGATGTCATTGGTGACGAGATCTGCTGCTGGTCCTTTTATGGCCAGGGCCGTAAGCTGGCAGAGGTGTGCTGT
ACCTCCATCGTGTATGCCACGGAGAAGAAGCAGACCAAGGTGGAATTCAGAGGCCCGAATCTATGAGGAGACA
CTCAACGTCCTACTCTATGAGACTCCCCGCGTCCCCGACAACCTCCTTGTGGAGGCCACAAGCCGTAGCCGAGC
CAGGCTTCCCCAGTGAAGATGAGGAGACCTTTGAACTGCGGGACCGTGTCCGCGCATCCACGTCAAGCGCTAC
AGCACTTACGATGACCGGCAGCTCGGCCACCAGTCTACCCATCGCGACTGACCAGACCCTCAGGGAGTCAGGGCA
CGGGAGGCCCTATCTCCCATCCTGTGGAACCCGCCCATTTGGCCACCCCATGCTGCTGCTGCCTGGGTCTCTGCT
CTAGCACCAGAGGCATGACAGGCCCTGCTCAGAGGTGAGAGGTCTGGGCAGAGGAGGGACCACATTCCCTGCG
CTTGCCCTGAGCACTTCTGGAGACTGCGTCTGTCTATCTGCTCACCATCACCTTCTGCCCCGACGGAGCTG
CTTCTGCTCCCTGGGGCATATGGACTGACCCACCTCCTGCTGAGAACCCTCCCTAGGCCCTGTGCAGAAAGGCTA
CTGCCCCCTTAGGCCTCAGCTGGGGGAAAGGCAGTTCTGGTGCTGTAGAGGCCCTGGTGCAGAAAGTGGGACGTCT
TTTTTCTAAGGTGTTTAAAGCACAGGCTTGATAAGTTTGGTTTTTAAAAAATAATCTAGGAAATGAATAATTCTA
AATCTAGTAATGAGGAACTGAGCATTCTTTTGGCCTCCAGGGTGCCAAGACCCTACATATGACAGAACCCTTG
GCCCTTCTCCATGCCTGTGGGATCTGTTTCTTAAAGCACTTTGTACTGTTATTTCAGGAGGTGATAATCTCCTT
GACCCATGTCTTTCTACCCTAATCCCCACTTCCCTGCAGAATCAATCTGAGGGAGGGGATAAAGAGGAAGCAATA
AAAAAAAACATCCGACAGAGCAGCTCTGGCTTTGCAGCCTGGCCAGCAGCTCAGAGTGCACCGAGGAGGGAAGG
ATGGCTAAGCTGGGACCGGCAGTCTCACAGGGTGCTGTGAGAAAGGACATTTTACCCCCACATCATAGTCACA
TCACTGACTCCTAGGTCTAGCACGACTGCTCTTTGTGATTCTCTTGAGTACCCTTGGCTTCCAGCCATGCTGTCC
TCACATACGGTAAAGCCAAAGAGCTGTACATGGGCCAGAAACATGAGCCACGGCAGGAAGACCGTGGAGCCCGT
GGGCACTGCATGGTGTGGCTGGCATGCCCATCAGCTGAGGACAGCAAACCTCCAGCAGCCCCCTACAGAGGTGGC
ACATGCTTGGCCACACATCTACTCCCTGCCACACCATCTATGCTCTTGGTTGGTGCTGGCTGGGATGGCGGTTT
TGCCCACTGGTGTCTCTGAGCGCGGGATGACAGGAGCAACCGAAGCACCTTGAAGGCCTTCACTCCTTGTGGGT
AACTCAGCCATGGAGATGCCAAGCACTAGCCAGGAGGTGAGTTCTCTTTAGGGCTTTGGTTTTTCATTCTTTTT
GTTTGGCTTGGCCAAACCAGAATTCAGCTTATCTGAATTATTTTCCAAAGGAATGCTGTGAGGAGGGAGTGTTC
TGCCAGCCTAACAAAGCAACGTAGCCACGTATAGTACCCACTTTCTGCTCTTTGGAGAGAACACAGGTTATCAAG
TTCATCTCTCTTGACTACTCTTATGATAGCTGATGCCACAGAGCCTATGGGCAAATGCCAGACCCAGGGTTAGAC
ACAAGGACCTGAAGTGACATGACGGCGGGACAGGGGAAATGTGACTTTCTAATTAGGCATTTTATGTTAGTCACA
GTCTTGAATGTATAAACAGCACTAAGACTCTCAGGTACAGGTACCTTGGTGATCAGCTACTAGTTCTTCCAGCCCT
CATTGAGGTAACAAGATAAAGACAAATCCACTTCTTTGGCCAAATTCAGGCTTTGGCTTTATGACTTTCCACAG
AGACTGGAATGCGTCAGCCTGAGACCCTGAGCCCTATTTTCTCAGCTGCCCTCTTGGGTCCTTTAAGCTCAAT
TCCCAGCTCCCCACTGAGGTGTTGTGATGCTTGCCTTTTGACCTCCCCATCCCCCTTTAGTCCCTGCTTACTACTT
TGACATTACATCCTCAGTGTCTCAGTCTTTTTTGGCGAGAAAGCACAGTAGTCTGGGACTGGGCATTTATCTTC
TCTGACTGAAAATCTCTCCTTGGTCTTAAGGAAAATACTAACATTGAACTCACTGACATGATCTTAGCTTCTTTA
ATCAGACTTTGTGACTTAAAGTTTGGGGGTTTTCTTTGAAAGTTTCAGCCCTATTTCAGAAAGCAACTCTTGGC
TGTGTGCATTTTTCAACTCCAAGCAGCCAGGGGTAAGTAAACAAAGTATGGATGAAGGTCAGATTTTCTTGTCA
GTTTTCTGAGAAACCTGGCAGCCTGCTGTTAACAACACAGGCCAGTATTGGGTTTTATTGAATTTGGTATGTGACC
AAGGTCGGCCTAAAGGATGGCGCAGGTCTGGGCAGGAAAGAATTTTTCTTTATACATAACTGTAATATTTGG
TTGCTCAGCATAAGTGATGGAAGCAAACACTAATTTCTAATAAAATTGTGTTAAACTC

5161/6881
FIGURE 4761

CCGCGGGTCGGGCTCTGTGTCAGCAGCCGGGCGGGCGCTCGGGCGGGACATGGCAGCCTGTACAGCCCGGCGGGC
CCTGGCCGTGGGCAGCCGCTGGTGGTCCCGGTCGCTGACTGGGGCCCGGTGGCCAAGGCCGCTCTGTGCGGCGGC
CGGAGCTGGAGCCTTCTCGCCAGCGTCGACCACGACGACGCGGAGGCACCTCTCGTCCCGAAACCGACCAGAGGG
CAAAGTGTTGGAGACAGTTGGTGTGTTGAGGTGCCAAAACAGAATGGAAAATATGAGACCGGGCAGCTTTTCCT
TCATAGCATTTTTGGCTACCGAGGTGTCGTCTGTTTCCCTGGCAGGCCAGACTGTATGACCGGGATGTGGCTTC
TGCAGCTCCAGAAAAGCAGAGAACCCTGCTGGCCATGGCTCCAAGGAGGTGAAAGGCAAAACTCACACTTACTA
TCAGGTGCTGATTGATGCTCGTGAAGTGGCCACATATATCTCAGAGATCTCAGACAGAAGCTGTGACCTTCTTGGC
TAACCATGATGACAGTCGGGCCCTCTATGCCATCCAGGCTTGGACTATGTCAGCCATGAAGACATCCTCCCTTA
CACCTCCACTGATCAGGTTCCCATCCAACATGAAGTCTTTGAAAGATTTCTTCTGTATGACCAGACAAAAGCACC
TCCTTTTGTGGCTCGGGAGACGCTAAGGGCCTGGCAAGAGAAGAATCACCCCTGGCTGGAGCTCTCCGATGTTCA
TCGGGAAACAACCTGAGAACATACGTGTCACTGTCACTCCCTTCTACATGGGCATGAGGGAAGCCAGAATTCCCA
CGTGTACTGGTGGCGCTACTGTATCCGTTTGGAGAACCTTGACAGTGATGTGGTACAGCTCCGGGAGCGGCACTG
GAGGATATTGAGTCTCTCTGGCACCTTGGAGACAGTGCGAGGCCGAGGGGTAGTGGGCAGGGAACAGTGTTATC
CAAGGAGCAGCCTGCGTTCCAGTATAGCAGCCACGTCTCACTGCAGGCTTCCAGTGGGCACATGTGGGGCACGTT
CCGCTTTGAAAGACCTGATGGCTCCCACTTTGATGTTCCGATTCTCCCTTCTCCCTGGAAAGCAATAAAGATGA
GAAGACACCACCCTCAGGCCTTCACTGGTAGGCCAGCTGAGGCCCAAGTGCCAGGCTTGGTCACCGGAAGAA
CAACTCTCATCCCACAATTGCTGCAGAACTCTTCTCTCCCATCATGGGCCACAGTGGGTCTCTTAATTTGATTG
TGGGGTTCTTTTGTGGGGAGGGGTGGTATAACTTTTCTTTCAGAAGACCCATGTGGGACACCTCCAAGGCTGGCC
TCCTCATAAGCCCTGCCTACACCATGTTCCAGTAAACCTCTCCACCAAGGAAGTGTGTTTCACTGCCACAGGCCT
GGAGGAGTTTCTTGGCCTGTCACGTGAGGTTTGTATCAGTAAACAGTGACGCTTGGCCACCCTTGCCATTTCTG
CTCCAGAGTCTCAGGCTCCCTTCTGACCCAGTGTGCGCCCTTGACTGCTTTCTTTGCTGCCCTTCCAGGGAGC
TGCCCCCTGGTAGGGCATGTGCCTGTTTCCCTCTCAGCCTGGAGGCTGGCTGGACATCTCCTAGGGTCACTGTG
CCTCTCAGCTAGTTGGCGGGGGTGTGCTGGACTGGACTCTTGTTCACTTTACCTTCTGCCAAATGCAGAGAGGGAGG
CCAGTGTCAAGGTCGGAGTGGCCTGGCTCTTAGCACTGACCGACCATTGCCATTTCTGGCCTCGCTAGGCCCAGG
AGAGGAGGGAGGCAAGCCAGTCGGGTTTCTGGAGCAATGGGTGTGCCAGCCCTCAGCATGACTCTGCCAAGCAT
CCAGACCACAAATGCAGGAATTTGGCTGAGGAGCAGCTTTAGGTATGGATTGATGACTAAGTCAAGCTACTTCTT
GAGCTTCTCTCAGATTTCCAAGAGCCAGAGATGAATTGTGCTGCATCTTGCCCCAATTCTTAGGATTTCTTTCC
TCCGCCACTGCAGTGATTGTTAGAGGTAGTTTTCTTGAATTAATATTAAATCACAGTTCAGCCCTGTAAAAAA

5162/6881
FIGURE 4762

MAACTARRALAVGSRWWSRSLTGARWPRPLCAAAGAGAFSPASTTTTTRHLSSRNRPPEGKVLETVGVFVFPKQNG
KYETGQLFLHSIFGYRGVVLFPWQARLYDRDVASAAPEKAENPAGHGSKEVKGKTHYYQVLIDARDCPHISQRS
QTEAVTFLANHDDSRALYAIPGLDYVSHEDILPYTSTDQVPIQHHELPERFLLYDQTKAPPFVARETLRAWQEKNH
PWLELSDVHRETTENIRVTVIPFYMGMREAQNSHVYWWRYCIRLENLSDVVLRLRERHWRIFSLSGTLETVRGRG
VVGREPVLSKEQPAFQYSSHVSLQASSGHMWGTFRFERPDGSHFDVRIPPFSLKDEKTPPSGLHW

5163/6881
FIGURE 4763

CAATCATGGATCAATAGCTATGTTTGGAGAAGGAATTTGTGGCTGCTCCAGCTACTGGGCATTTTGTCTGGTCCA
GTTTCATGTAATCTCCCAACACCCCATGAAGCAAGGCTTTGTTAATCCTATTTTACTGAAAATGAACTAAGACTCA
GAGAGATAAAGCTGTTGCCCAATGAGCCTTCTTTCTGCCCTCCAGATCCACGGTGCTAATTTCCCTTCCGATGAC
CTAATGATTCTGAGCTTGGCAAAGGTCTTATCTCCCAGCTCGCCAGGCCAGTGTTCCAGGAATGTGACCTTTG
CTGCAGCAGCCGCTGGAGGGGGCAGAGGGGATGGGCTGGAGGTTGAGCAAACAGAGCAGCAGAAAAGGCAGTTCC
TCTTCTCCAGTGCCCTCCTTCCCTGTCTCTGCCTCTCCCTCCCTTCCTCAGGCATCAGAGCGGAGACTTCAGGGA
GACCAGAGCCCAGCTTGCCAGGCACTGAGCTAGAAGCCCTGCCATGGCACCCCTGAGACCCCTTCTCATACTGGC
CCTGCTGGCATGGGTTGCTCTGGCTGACCAAGAGTCATGCAAGGGCCGCTGCACTGAGGGCTTCAACGTGGACAA
GAAGTGCCAGTGTTGACGAGCTCTGCTCTTACTACCAGAGCTGCTGCACAGACTATACGGCTGAGTGCAAGCCCCA
AGTGACTCGCGGGGATGTGTTCACTATGCCGGAGGATGAGTACACGGTCTATGACGATGGCGAGGAGAAAAACAA
TGCCACTGTCCATGAACAGGTGGGGGGCCCCCTCCCTGACCTCTGACCTCCAGGCCAGTCCAAAGGGAATCCTGA
GCAGACACCTGTTCTGAAACCTGAGGAAGAGGCCCTGCGCCTGAGGTGGGCGCCTCTAAGCCTGAGGGGATAGA
CTCAAGGCCTGAGACCCCTTCATCCAGGGAGACCTCAGCCCCCAGCAGAGGAGGAGCTGTGCAGTGGAAGCCCTT
CGACGCCTTCACCGACCTCAAGAACGGTTCCCTCTTTGCCTTCCGAGGGCAGTACTGCTATGAACTGGACGAAAA
GGCAGTGAGGCCTGGGTACCCCAAGCTCATCCGAGATGTCTGGGGCATCGAGGGCCCCATCGATGCCGCCTTCAC
CCGCATCAACTGTICAGGGGAAGACCTACCTCTTCAAGGGTAGTCAGTACTGGCGCTTTGAGGATGGTGTCTGGA
CCCTGATTACCCCCGAAATATCTCTGACGGCTTCGATGGCATCCCGGACAACGTGGATGCAGCCTTGGCCCTCCC
TGCCCATAGCTACAGTGGCCGGGAGCGGGTCTACTTCTTCAAGGGGAAACAGTACTGGGAGTACCAGTTCAGCA
CCAGCCCAGTCAGGAGGAGTGTAAGGCAGCTCCCTGTGCGCTGTGTTGAACACTTTGCCATGATGCAGCGGGA
CAGCTGGGAGGACATCTTCGAGCTTCTCTCTGGGGCAGAACCTCTGCTGGTACCAGACAGCCCCAGTTTCATTAG
CCGGGACTGGCACGGTGTGCCAGGGCAAGTGGACGCAGCCATGGCTGGCCGCATCTACATCTCAGGCATGGCACC
CCGCCCCCTCCTTGGCCAAGAAACAAAGGTTTAGGCATCGCAACCGCAAAGGCTACCGTTTACAACGAGGCCACAG
CCGTGGCCGCAACCAGAACTCCCGCCGGCCATCCCGCGCCATGTGGCTGTCTTGTCTCCAGTGAGGAGAGCAA
CTTGGGAGCCAACAACCTATGATGACTACAGGATGGACTGGCTTGTGCCTGCCACCTGTGAACCCATCCAGAGTGT
CTTCTTCTTCTCTGGAGACAAGTACTACCGAGTCAATCTTCGCACACGGCGAGTGACACTGTGGACCCCTCCCTA
CCCACGCTCCATCGCTCAGTACTGGCTGGGCTGCCAGCTCCTGGCCATCTGTAGGAGTCAGAGCCCACATGGCC
GGGCCCTCTGTAGCTCCCTCCTCCCATCTCCTTCCCCCAGCCCAATAAAGGTCCCTTAGCCCCGAGTTTAAA

5164/6881
FIGURE 4764

MAPLRPLLILALLAWVALADQESCKGRCTEGFNVDKKQCDELCSYYQSCCTDYTAECKPQVTRGDVFTMPEDY
TVYDDGEEKNNATVHEQVGGPSLTSDLQAQSKGNPEQTPVLKPEEEAPAPEVGASKPEGIDSRPETLHPGRPQPP
AEEELCSGKPFDAFTDLKNGSLFAFRGQYCYELDEKAVRPGYPKLIRDVWGIEGPIDAAFTRINCQGKTYLFKGS
QYWRFEEDGVLDPDYPRNISDGFDPDNDVDAALALPAHSYSGRERVYFFKGKQYWEYQFQHQPSQEECEGSSLSA
VFEHFAMMQRDSWEDIFELFWGRTSAGTRQPQFISRDWHGVPGQVDAAMAGRIYISGMAPRPSLAKKQRFHRN
RKGYSQRGHSRGRNQNSRRPSRAMWLSLFSSEESNLGANNYDDYRMDWLVPATCEPIQSVFFFSGDKYYRVNLR
TRRVDTVDPPYPRSIAQYWLGCAPAGHL

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FIGURE 4765A

ACAGACGGCGGGTGAACATGGCGTCTCGACTTGGTCTGAGACGTGATAGGCCTGCCTTCTGGTTGAAGATGTGG
CGAGTGAAAAAACTGAGCCTCAGCCTGTCGCCTTCGCCCCAGACGGGAAAACCATCTATGAGAACTCCTCTCCGT
GAACTTACCCTGCAGCCCGGTGCCCTCACCAACTCTGGAAAAAGATCCCCCGCTTGCTCCTCGCTGACCCCATCA
CTGTGCAAGCTGGGGCTGCAGGAAGGCAGCAACAACCTCATCTCCAGTGGATTTTGTAAATAACAAGAGGACAGAC
TTATCTTCAGAACATTTTCACTCATTCTCAAAGTGGCTAGAACTTGTGAGCATGAATCAGATGAGCAGCCTCTA
GATCCAATTCCCCAAATTAGCTCTACTCCTAAAACGTCTGAGGAAGCAGTAGACCCACTGGGCAATTATATGGTT
AAAACCATCGTCTTGTACCATCTCCACTGGGGCAGCAACAAGACATGATATTTGAGGCCCGTTTAGATACCATG
GCAGAGACAAAACAGCATATCTTTAAATGGACCTTTGAGAACAGACGATCTGGTGAGAGAGGAGTGGCACCCTGC
ATGGGAGACAGGTTTTTCAAGAGTTGCTGCTGTATCTGAGAAACCTATCTTTTCAAGGAATCTCCGTCCCCTCTCTTA
GAGGAGTCTCCACCAAATCCCTGTTCTGAACAACCTACATTGCTCCAAGGAAAGCCTGAGCAGTAGAACTGAGGCT
GTGCGTGAGGACTTAGTACCTTCTGAAAGTAACGCCTTCTTGCCCTTCTCTGTTCTCTGGCTTTCCCTTCAACT
GCCTTGGCAGCAGATTTCCGTGTCAATCATGTGGACCCAGAGGAGGAAATTGTAGAGCATGGAGCTATGGAGGAA
AGAGAAATGAGGTTTTCCACACATCCTAAGGAGTCTGAAACAGAAGATCAAGCACTTGTCTCAAGTGTGGAAGAT
ATTCTGTCCACATGCCTGACACCAAATCTAGTAGAAATGGAATCCCAAGAAGCTCCAGGCCAGCAGTAGAAGAT
GTTGGTAGGATTCTTGGCTCTGATACAGAGTCTTGGATGTCCCACTGGCCTGGCTGGAAGGAGGTGTAAATACC
TCCGTCTATGCTGGAAGATCTCCGCCAAAGCTTATCCCTTCCCTCGATGCTTCGGGATGCTGCAATTGGCACTACC
CCTTTCTCTACTTGTCTCGGTGGGACTTGGTTTACTCCTTCAGCACCACAGGAAAAGAGTACAAACACATCCCAG
ACAGGCCTGGTTGGCACCAAGCACAGTACTTCTGAGACAGAGCAGCTCCTGTGTGGCCGGCCTCCAGATCTGACT
GCCTTGTCTCGACATGACTTGGAAGATAACCTGCTGAGCTCTCTTGTCTATTCTGGAGGTTCTCTCCCGCCAGCTT
CGGGACTGGAAGAGCCAGCTGGCTGTCCCTCAGCCAGAAACCCAGGACAGTAGCACACAGACTGACACATCTCAC
AGTGGGATAACTAATAAACTTCAGCATCTTAAGGAGAGCCATGAGATGGGACAGGCCCTACAGCAGGCCAGAAAT
GTCATGCAATCATGGGTGCTTATCTCTAAAGAGCTGATATCCTTGCTTACCTATCCCTGTTGCATTTAGAAGAA
GATAAGACTACTGTGAGTCAGGAGTCTCGGCGTGAGAAACATTGGTCTGTTGCTGTTTTGATTGCTGAAGAAA
TTGAGGGCAAAGCTCCAGAGCCTCAAAGCAGAAAGGGAGGAGGCAAGGCACAGAGAGGAAATGGCTCTCAGAGGC
AAGGATGCGGCAGAGATAGTGTGGAGGCTTTCTGTGACACGCCAGCCAGCGCATCAGCCAGCTGGAACAGGAC
CTAGCATCCATGCGGGAATTCAGAGGCCTTCTGAAGGATGCCAGACCCAACCTGGTAGGGCTTCATGCCAAGCAA
GAAGAGCTGGTTTACGACAGAGTGAAGTCTTACTTCTACCTTGCAACAAGACTGGAGGTCCATGCAACTGGATTAT
ACAACATGGACAGCTTTGCTGAGTCGGTCCCGACAACCTCACAGAGAACTCACAGTCAAGAGCCAGCAAGCCCTG
CAGGAACGTGATGTGGCAATTGAGGAAAAGCAGGAGGTTTCTAGGGTGCTGGAACAAGTCTCTGCCAGTTAGAG
GAGTGCAAAGGCCAAACAGAACTGGAGTTGGAAGACAGTCGTCTAGCAACAGATCTCCGGGCTCAGTTGCAG
ATTCTGGCCAACATGGACAGCCAGCTAAAAAGAGCTACAGAGTCAGCATACCCATTGTGCCCAGGACCTGGCTATG
AAGGATGAGTTACTCTGCCAGCTTACCCAGAGCAATGAGGAGCAGGCTGCTCAXXXXXXXXXXXGAAGAGATGGCA
CTAAAACACATGCAGGCAGAACTGCAGCAGCAACAAGCTGTCTTGCCAAAGAGGTGCGGGACCTGAAAGAGACC
TTGGAGTTTGCAGACCAGGAGAATCAGGTTGCTCACCTGGAGCTGGGTGAGTTGAGTGTCAATTGAAAACCACA
CTGGAAGTGCTCCGGGAGCGCAGCTTGCAGTGTGAGAACCTCAAGGACACTGTAGAGAACCTAACGGCTAAACTG
GCCAGCACCATAGCAGATAACCAGGAGCAAGATCTGGAGAAAACACGGCAGTACTCTCAAAGCTAGGGCTGCTG
ACTGAGCAACTACAGAGCCTGACTCTCTTTCTACAGACAAAACCTAAAGGAGAAGACTGAACAAGAGACCCTTCTG
CTGAGTACAGCCTGTCTCTCCACCCAGGAACACCCTCTGCCTAATGACAGGACCTTCTGGGAAGCATCTTGACA
GCAGTGGCAGATGAAGAGCCAGAATCAACTCCTGTGCCCTTGCTTGGAGTGACAAGAGTGCTTTACCCGAGTA
GCATCAATGGTTTTCCCTTCAGCCCGCAGAGACCCAGGCATGGAGGAGAGCCTGGCAGAAATGAGTATTATGACT
ACTGAGCTTCAGAGTCTTTGTTCCCTGCTACAAGAGTCTAAAGAAGAAGCCATCAGGACTCTGCAGCGAAAAATT
TGTGAGCTGCAAGCTAGGCTGCAGGCCCAGGAAGAAGCAGCATCAGGAAGTCCAGAAGGCAGGAAGAGCAGACATA
GAGAAGCTGAACCAGGCCTTGTGCTTGCCTACAAGAATGAAAAGGAGCTCCAGGAAGTGATACAGCAGCAGAAAT
GAGAAGATCCTAGAACAGATAGACAAGAGTGGCGAGCTCATAAGCCTTAGAGAGGAGGTGACCCACCTTACCCGC
TCACTTCGGCGTGCGGAGACAGAGACCAAAGTGTCTCAGGAGGCCCTGGCAGGCCAGCTGGACTCCAAGTCCAG
CCTATGGCCACCAATTGGATCCAGGAGAAAGTGTGGCTCTCTCAGGAGGTGGACAACTGAGAGTGATGTTCTCTG
GAGATGAAAAATGAGAAGGAAAACTCATGATCAAGTTCCAGAGCCATAGAAAATATCCTAGAGGAGAACCTTCGG
CGCTCTGACAAGGAGTTAGAAAACTAGATGACATTGTTTCAGCATATTATATAAGACCCTGCTCTCTATTCCAGAG

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FIGURE 4765B

GTGGTGAGGGGATGCAAAGAACTACAGGGATTGCTGGAATTTCTGAGCTAAGAAACTGAAAGCCAGAATCTGCTT
CACCTCTTTTTACCTGCAATACCCCTTACCCCAATACCAAGACCAACTGGCATAGAGCCAAGTGAATGATG
TATTAAATAAAGTGTATTTAATG

5167/6881
FIGURE 4766

MWRVKKLSLSLSPSPQTGKPSMRTPLRELTLOPGALTNSGKRSPACSSLTPSLCKLGLQEGSNNSSPVDFVNNKR
TDLSSSEHFSHSSKWLETCQHESEDEQPLDPIQISSTPKTSEEAVDPLGNMVKTIIVLVPSPPLGQQQDMIFEARLD
TMAETNSISLNGPLRTDDLREEVAPCMGDRFSEVAAVSEKPIFQESP SHLLEESPPNPCSEQLHCSKESLSSRT
EAVREDLVPSESNAFLPSSVLWLS PSTALAADFRVNHVDPEEEIVEHGAMEEREMRFP THPKESE TEDQALVSSV
EDILSTCLTPNLVEMESQEAPGPAVEDVGRILGSDTESWMSPLAWLEKGVNTSVMLNLRQSLSLPSMLRDAAIG
TTPFSTCSVGTWFTPSAPQEKSTNTSQTGLVGTKHSTSETEQLLCGRPPDLTALS RHDLEDNLLSSLVILEVLSR
QLRDWKSQ LAVPHPETQDSSTQTDTS HSGITNKLQHLKESHEMGQALQQARNVMQSWVLISKELISLLHLSLLHL
EEDKTTVSQESRRAETLVCCCFD LLLKKLRAKLQSLKAEREEARHREEMALRGKDAAEIVLEAFCAHASQRISQLE
QDLAS MREFRGLLKDAQTQLVGLHAKQEELVQQTVSLTSTLQQDWRSMLDYTTWTALLSRSRQLTEKLT VKSQQ
ALQERDVAIEEKQEVSRVLEQVSAQLEECKGQTEQLELENSRLATDLRAQLQILANMDSQLKELQSQHTHCAQDL
AMKDELLCQLTQSNEEQAAQWQKEEMALKHMQAELQQQQAVLAKEVRDLKETLEFADQENQVAHLELGQVECQLK
TTLEVLRRERSLQCENLKD TVENLTAKLASTIADNQE QDLEKTRQYSQKLGLLTEQLQSLTLFLQTKLKEKTEQET
LLLSTACPP TQEHPLPNDRTFLGSILTAVADEEPESTPVPLLGS DKSFAFTRVASMVSLQPAETPGMEESLAEMSI
MTTELQSLCSLLQESKEEAIRTLQRKICELQARLQAQEEQHQEVO KAKEADIEKLNQALCLRYKNEKELQEVIOQ
QNEKILEQIDKSGELISLREEVTHLTRSLRRAETETKVLQEALAGQLDSNCQPMATNWIQEKVWLSQEVDKLRVM
FLEMKNEKEKLMIKFQSHRNILEENLRRSDKELEKLDDIVQHIYKTLLSIPEVVRGCKELQGLLEFLS

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FIGURE 4767

CCTTTGCCCTTTGAGGCTCTGTGGCTGTGGGGCTGAGTGGCATCATGGCGGCTCAGAAAGATCTCTGGGACGCCAT
TGTGATTGGGGCGGGGATCCAGGGCTGCTTCACTGCATACCACCTGGCCAAACACAGGAAGAGGATCCTCCTGCT
GGAGCAGTTCTTTCTACCACTCCCGAGGAAGCTCCCATGGACAAAGCCGGATAATCCGAAAGGCGTACCTGGA
AGACTTTTACACCCGGATGATGCATGAGTGCTATCAGATATGGGCCCAGCTGGAGCACGAGGCTGGAACCCAATT
GCACAGGCAGACTGGATTACTGCTGCTGGGAATGAAAGAGAATCAAGAATTAAAGACAATCCAGGCCAATCTGTC
GAGGCAGAGGGTAGAACACCAGTGTCTTTCATCTGAGGAAGTGAAGCAACGTTTCCCAAATATTCGGTTGCCAG
GGGAGAAGTGGGGCTCTTGGACAATTCCGGAGGAGTTATCTATGCATATAAGGCCCTCAGAGCCCTGCAGGATGC
AATTGCACAGCTAGGAGGCATAGTGCCTGACGGAGAGAAGGTGGTGGAGATAAACCCAGGGCTACTGGTCACGGT
GAAAACCACTCCAGGAGCTACCAAGCTAAGAGCTTGGTCATCACAGCAGGTCCTTGGACCAACCAGCTCCTCCG
TCCCCTGGGCATTGAGATGCCTCTCCAGACCCTGCGGATCAACGTGTGTTACTGGCGAGAGATGGTTCCTGGGAG
CTATGGTGTGTCCAGGCCCTTTCGTGCTTCTGTGGCTGGGCTTGTGTCCCCACCACATCTACGGACTGCCAC
AGGAGAGTACCCAGGGCTGATGAAGGTCAGTATCACACGGCAACCACGCAGACCCTGAGGAGCGGGACTGCCC
CACAGCACGCACAGACATCGGAGACGTCCAGATCCTGAGCAGCTTTGTGAGAGATCACTTACCTGATCTGAAGCC
CGAGCCTGTGTGTCATTGAGAGCTGCATGTACACGAATACCCCTGATGAGCAGTTCATTCTCGATCGCCACCCAAA
GTATGACAACATTGTGTCATTGGTGCTGGATTCTCTGGGCACGGGTTCAAGCTGGCCCCCTGTGGTGGGGAAGATCCT
GTATGAATTAAGCATGAAATTAACACCATCTTATGACTTGGCACCTTTTTCGAATCAGCCGTTTCCCAAGCCTGGG
CAAAGCCACCTTTGACCTCTGGCCAGAAGCCTCCCTTCTGTGCACAGGAGCCAGTTTCACAGATGGAGAAGATG
TCTCAGATGAAGGGAGTGTCCCTGAGATATCATCCTTTTCTTCTGCCTCGCTGAATCCCCCATAAACACCAGAT
GATTGAGTCTACCTTCTTTCTTGGCCGCTCCCTTTTTCTTCTGCCTCACTTGAATCCCCCGTAAACACCAGAC
GATTGAGTCTACCTTCTTTCTTGGCCACCTCCCCATTCACACTACTTTCTCGCTCCCAGAAGGTTGATCAGAT
ATTCTACAATCACAGAGTAGCAAGGACGTTTGAGATGGGTATATCAGTAAGAAGAGGGCACAGAAGAACTGGCTCTG
GAGACCAAAGCAGTTGTTAAAAATTCTCTTTGCTGGGGGCCGGGTGTGGTGGCTCACACCTGTAATCTCGGCACT
TTGGGGGGCTGAGACAGGCGGATCACCTGAGGCCAGGAATTCAAGACCAGCCTGGCCAACATGGTGAAACCTTAT
CTCCACTAAAAATACAAAATTAGCTGGGTGTGGTGGCGCATGCCTGTAATCCCAGCTACTTGGGAGACTGAGGCA
AGAGAATCACTTGAACCCGGGAGGTGGAGGTGGCAGTGAGCCGAGATTGCGCCATTGCACTCCAGCCTGGGCAAA
AAGAGTGAGACTCTGTCTCAAAAAAAAAACAAAAACCTCTTTGCTGGTATATTTGAAGAGCTTGGGA
TGGATTTGACTAAATCTGCCCCGAGGAGGTGAACAAGGTGATCTCAGAGATCACTACTGCTCTTGGAGTTCCTT
CTCCTAAAGCTAAGGCCAGCCTCCATCACAAATGCCCATAAAATCTGGCTCGTCTTTGATGAACAATAAATATTT
GTTGAACAATAAATAACTGCCCTGC

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FIGURE 4768

GCTTGACCACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACAC
ACTTGTGTTTCAATTGTGGATGTTAAAGCCAACAAGCACCAGATTAAACAGGCTGTGAAGAAGCTGTATGACATTGA
TGTGGCCAAGGTCAACACCCTGATTCGGCCTGATGGAGAGAAGAAGGCATATGTTTCGACTGGCTCCTGATTACGA
TGCTTTGGATGTTGCCAACAAGTAAGTTTCCTTCCTACAAACCCCTTAATGCTCACCCCTTGGGTGCAAATGAT
GCATATGTTAGCGACCAAAGCCTGATCTTTGCTGATTAGTCATAATTAAGTACTGCTGCACCCCTATCCTTGACAAA
CCTTATCCTCACATTCTCATTGCTTT

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FIGURE 4769

TCAGTGAAGGAGTCTTCAAGTGCCCTGAGGACCAGCTTCCTCTGGACTATGCCAAGATCTACCCAGACCCGGAGC
TGGAAGTACAAGTATTGGGCCTGCCTATCCGCTGCATCCACAGTGAGGAGGGCTGCCGCTGGAGTGGGCCACTAC
GTCATCTACAGGGCCACCTGAATACCTGCAGCTTCAATGTCATTCCCTGCCCTAATCGCTGCCCCATGAAGCTGA
GCGCCCGTGATCTACCTGCACACTTGCAGCATGACTGCCCAAGCGGCGCCTCAAGTGCAGAGTTTTGTGGCTGTG
ACTTCAGTGGGGAGGCCTATGAGAGCCATGAGGGTATGTGCCCCAGGAGAGTGTCTACTGTGAGAATAAGTGTG
GTGCCCCGATGATGCGGCGGCTGCTGGCCAGCATGCCACCTCTGAGTGCCCCAAGCGCACTCAGCCCTGCACCT
ACTGCACTAAGGAGTTCGTCTTTGACACCATCCAGAGCCACCAGTACCAGTGCCCCAAGGCTGCCTGTTGCCTGCC
CCAACCAATGTGGTGTGGGCACTGTGGCTCGGGAGGACCTGCCAGGCCATCTGAAGGACAGCTGTAACACCGCCC
TGGTGTCTGCCCCATTCAAAGACTCCGGCTGCAAGCACAGGTGCCCTAAGCTGGCAATGGCACGGCATGTGGAGG
AGAGTGTGAAGCCACATCTGGCCATGATGTGTGCCCTGGTGAGCCGGCAACGGCAGGAGCTGCAGGAGCTTCGGC
GAGAGCTGGAGGAGCTATCAGTGGGCAGTGATGGCGTGCTCATCTGGAAGATTGGCAGCTATGGACGGCGGCTAC
AGGAGGCCAAGGCCAAGCCCAACCTTGAGTGCTTCAGCCCAGCCTTCTACACACATAAGTATGGTTACAAGCTGC
AGGTGTCTGCATTCCCTCAATGGCAATGGCAGTGGTGAGGGGCACACACCTCTCACTGTACATTCTGTGTGCTGCCTG
GTGCCCTTTGACAATCTCCTTGAGTGGCCCTTTGCCCCGCGTGTCACCTTCTCCCTGCTGGATCAGAGCGACCCTG
GGCTGGCTAAACCACAGCACGTCACTGAGACCTTCCACCCCGACCCAAACTGGAAGAATTTCCAGAAGCCAGGCA
CGTGGCGGGGCTCCCTGGATGAGAGTTCTCTGGGCTTTGGTTATCCCAAGTTCATCTCCCACCAGGACATTGCAA
AGCGAAACTATGTGCGGGATGATGCAGTCTTCATCCGTGCTGCTGTTGAACTGCCCCGGAAGATCCTCAGCTGAG
TGCAGGTGGGGTTCGAGGGGAAAGGACGATGGGGCATGACCTCAGTCAGGCACTGGCTGAACTTGGAGAGGGGGC
CGGACCCCCGTGAGCTGCTTCTGCTGCCTAGGTTCTGTTACCCCATCCTCCCTCCCCCAGCCACCACCCTCAGGT
GCCTCCAATTGGTGCTTCAGCCCTGGCCCCCTGTGGGGAACAGGTCTTGGGGTCATGAAGGGCTGGAAACAAGTGA
CCCCAGGGCCTGTCTCCCTTCTTGGGTAGGGCAGACATGCCTTGGTGCCGGTCACACTCTACACGGACTGAGGTG
CCTGCTCAGGTGCTATGTCCCAAGAGCCATAAGGGGGTGGGAATTGGGGAGGGAGAAAGGGTAGTTCAAAGAGTC
TGTCTTGAGATCTGATTTTTTCCCCCTTTACCTAGCTGTGCCCCCTCTGGTTATTTATTTTCCTTAGTGCCAGGAG
GGCACAGCAGGGGAGCCCTGATTTTAAATAAATCCGGAATTGTATTTATT

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FIGURE 4770

MPGFDYKFLEKPKRRLLCPLCGKPMREPQVSTCGHRFCDTCLQEFLSEGVFKCPEDQLPLDYAKIYPDPELEVQ
VLGLPIRCIHSEEGCRWSGPLRHLQGHNTCSFNVIPCPNRCMPKLSRRDIPAHLQHDCPKRRLKCEFCGCDFSG
EAYESHEGMCPQESVYCENKCGARMMRLLAQHATSECPKRTQPCTYCXLXXSSSLTPSRATSTSAQGCLLPAPT
NVVWALWLGRTCQAI

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FIGURE 4771

GAGACTCGCCCGGCTCAACCCCGACGTCCGCGCCCCGGCCGCCTGTTGGCCATGGCGGGCCTGGGCCTGGGCTCC
GCCGTTCCCGTGTGGCTGGCCGAGGACGACCTCGGCTGCATCATCTGCCAGGGGCTGCTGGACTGGCCCGCCACG
CTGCCCTGCGGCCACAGCTTCTGCCGCCACTGCCTGGAGGCCCTGTGGGGCGCCCGCGACGCCCGCCGCTGGGCC
TGCCCCACTTGCCGCCAGGGCGCCGCGCAGCAGCCGCACCTGCGGAAGAACACGCTACTGCAGGACCTGGCCGAC
AAGTACCGCCGCGCCGCGACGCGAGATACAGGCGGGCTCCGACCCTGCCCACTGCCCCCTGCCCCGGGCTCCAGTTCC
CTCTCCAGCGCGGCCGAGGCCCGCGCCCGCCGGAAGTGCAGCGGGTGGCAGTAGAGAAGAGCATCACAGAA
GTTGCTCAGGAGCTGACAGAGCTGGTGGAACATCTTGTAGACATTGTCAGAAGCCTGCAGAATCAGAGGCCCTTA
TCAGAATCTGGACCAGACAACGAAGTGAAGCATCCTGGGCAAGGAGAACTCCTGGAAGCCCCGTCTTCTCCTCAT
GCCCATTGCCTGACCAGAGCCACCCTGCACTCAGGAGAGCTTCTCGGTTTGCTCAGTGGGCCATCCATCCAACCT
TTAACTTGAAGAGCCTTTCTCTGCAGCCTGGAGGTGTCCAAGGATTCCCGTACAGTGACTGTGTCTCACCGCCCAC
AACCCTATCGCTGGAGCTGTGAGAGGTTTTCTACCAGCCAGGTCTTATGTTCCCAGGCCCTGTCTTCTGGAAAGC
ATTACTGGGAAGTGGACACTAGGAATTGCAGCCACTGGGCAGTTGGGGTGGCTTCCTGGGAGATGAGCCGCGACC
AGGTCTTGGGAAGGACTATGGACTCTTGTGTGTGGAATGGAAGGGGACTAGCCAGCTCTCTGCATGGCACATGG
TCAAGGAACTGTCCTTGGCTCAGACAGACCTGGGGTGGTGGGCATCTGGCTGAACCTTGAGGAGGGAAAGCTTG
CCTTCTATTAGTGGACAATCAGGAGAAGCTTCTGTATGAGTGTACCATCTCTGCCTCCTCTCCTTTGTACCCTG
CCTTCTGGCTGTATGGCTTACATCCTGGAAAATTACCTGATAATAAAGCAAGTAAAGGTGTAAGGTTTCCTAAGGG
ATTACAACACAGTGGTTTTCTGGTCTCTCTCCCTGTCATCAATCAGGGTAGTAAGTTGACTTAAGAATACCACTT
TTTAGAAAAATTACGATAGAGATGGGATCTCACTAGGTGCCCCAGGCTGGTGTGCAATTCTGGTCTCAAGCAGT
CCTCCCACCTCAGCCTCCCAAGGTGCTGGGATTACAGGTGTGAGCCACCACACCTGGCCAAGAATACCACTTTTG
AAGTTAATCCTTTTGTGTGATACAGGATGAAGTTGGGATGTTTGAACCCTGGACATTCCAAATAAAGAATAGGCC
CCTGCCTGGCTCCTGGGAGATAACCTCTAAGCCATTAGAATATCTTGCCTGATAAGAGTGTTTTTGTGTTACCTGT
GGGCCTTGGGCCATGCAGTATCAGCTTGACCTTGCAAGGTCAAGCTGAGGAGACTAAGTTAGCCATGTGGGCAGT
GAAGCATGCCAATGTGATCAATCCCTAGTAAAAGCCCTGGACACCTAGGCATGGGTGAGCTACTCTGGTTGGTAA
TACTCTGTGCACACATCATTGTAGCCACACATCATTGCTGGGAGAATTAAGCATTATCCTGAAGACTCTGCCAGG
AGAGGATAATTGGAAGTTCTCTTGGACCTTACCTTATGTGCCTTTCTTCATTGCTGATTTTAATCTGTATCCTTT
CACTGTAATAAACTGTAACATATGAGTGCAA

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FIGURE 4772

MAGLGLGSAPVWLAEDDLGCIICQGLLDWPATLPCGHSFCRHCLEALWGARDARRWACPTCRQGAAQQPHLRKN
TLLQDLADKYRRAAREIQAGSDPAHCPCPGSSSLSSAAARPRRRPELQRVAVEKSITEVAQELTELVEHLVDIVR
SLQNQRPLSESGPDNELSILGKENSWKPRLPPHAHCLTRATLHSGELLGLLSGPSIQPLT

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FIGURE 4773A

AGGTGGA AAAA CTTGTGAAATATTTGGATCCCAACGACCTGGGGAGAATCAACTTCAAGGACTTTTGCCGGGGGG
TGTTCCGCAATGAAAGGGTGGCAGGAGCTGCTGAAGGATGTGCTGTCGGTGGAGAGCGCGGGGACGCTGCCGTGCCG
CGCCAGAGATCCCAGACTGCGTGGAGCAGGGCAGCGAGGTCACAGGCCCCACCTTTGCTGATGGCGAGCTCATCC
CCAGGGAACCCGGCTTTTTTCCCGAGGACGAGGAGGAGGCTATGACGCTGGCGCCACCTGAGGGCCCCCAGGAGT
TGTAACACAGACAGCCCCATGGAGAGCACTCAGAGCCTGGAGGGGTCTGTCGGGAGTCTGCCCAGAAGGACGGGG
GACTTGGGGGCCTGTTTCTGCCAGAAGACAAGTCCCTGGTCCACACTCCATCCATGACGACCTCAGACCTTTCTA
CACACTCCACCACCTCGCTCATCAGCAATGAGGAGCAGTTTGAAGACTATGGGGAGGGTGACGATGTGGACTGTG
CCCCCAGCAGCCCTTGCCCCGATGATGAGACCAGGACCAACGTCTACTCGGACCTGGGGTCTTCGGTGTCTTCCA
GTGCGGGGCAGACGCTTAGGAAAATGCGGCACGTGTACAACAGCGAATTGCTAGATGTTTACTGCTCTCAATGCT
GCAAGAAAATCAACCTGCTCAATGACTTGGAAGCCCGACTGAAAAACCTGAAGGCCAACAGCCCCAACCGAAAAGA
TCTCCAGCACGGCCTTTGGACGGCAGCTCATGCACAGCAGCAACTTCAGCAGCAGCAATGGCAGCACCGAAGACC
TGTTCCGGGACAGCATTGACTCTTGCGACAATGACATCACAGAGAAGGTAAGCTTCCTGGAAAAGAAGGTGACAG
AGCTGGAGAATGACAGCCTGACCAATGGGGACCTGAAGAGCAAGCTGAAGCAAGAGAACACACAGCTGGTGCACA
GGGTGCATGAGCTGGAGGAGATGGTGAAGGATCAGGAGACCACGGCCGAGCAGGCTCTGGAGGAGGAGGCGCGGC
GCCACCGCGAGGCCTACGGCAAGCTGGAGAGGGAGAAGGCTACCGAGGTGGAGCTGCTCAATGCCAGGGTGCAGC
AGTTGGAGGAAGAAAATACAGAGCTTAGAACAACAGTGACTCGGCTCAAGTCTCAAACAGAGAACTGGATGAGG
AGCGGCAGCGCATGTCTGACCGTCTGGAGGACACCAGCCTGCGGCTCAAAGATGAGATGGACCTGTACAAGCGCA
TGATGGACAAGCTGCGACAGAACCGCCTTGAGTTCCAGAAGGAGCGGGAGGCGACGCAGGAGCTCATCGAGGACT
TGCGGAAGGAGCTGGAGCACCTGCAGATGTACAAGCTGGACTGCGAGCGGCCAGGCAGGGGCCGAGTGCCTCCT
CTGGCCTAGGCGAGTTCAATGCCAGGGCCCCGAGGTGGAGCTCGAGCACGAGGTCAAGCGGCTCAAGCAGGAGA
ATTATAAGCTGCGGGATCAGAACGACGACTTGAATGGGCAGATTTTGAGCCTCAGCCTCTACGAAGCAAAAAACC
TCTTTGCTGCCCAGACTAAAGCCAGTCTCTGGCTGCGGAGATAGACACCGCCTCGCGCGATGAGCTAATGGAAG
CCCTGAAGGAGCAGGAGGAGATCAACTTCCGGCTGAGGCAGTACATGGACAAGATTATCCTCGCCATCCTGGACC
ACAATCCCTCCATCCTCGAGATCAAACACTAAGGCACGGGGCTGGCTGCAGAGCAGCCTTAGGACCCCTGGGACCA
AGGGCAGACCTTGCCCAAGGATGCAGGCCTAAGCCGGGCCTCACACTCACACTGTAAATGTCTCTCTGGCCACCA
TGCGTTACGTGTACCCGTGTATATGTGGGGAGGCTGTGCACACGAGCGAGGGGTGAGTGGCCGTGGCTGTGGGCA
GCATCCACACGGTTAGCCGTGCATGCACCTTTGTGGCCCCCTTTGCAAGGGGCAGAGGGTACTGGAAGTGGGAGGAG
GCAAGGTCTGCTATCAGGAGTTACTGTAAAAACAAGAACTGGAAGCTCGTGTTTCCGGTACTGGGTAAAATGATT
CTACCTCTGGGGATAAGGATTACATTGCTCTAGTACGATGGGCTCTTTACCCCCACTCCTAGTCCCCTTGGA
GTGGGAGCAAAATGTGATCTTTCTAGGAGTTTGAATGCCCCATATTTGTGTCTCGCCAGCTCTTTGGCCACC
TTTCAAGCCCCAGTGTTCAAGCTCAGAGAGGATGAAGGGGCATCTGGAGGGTCCATGAGATGGGGCCCTCACCAA
ATGCCTTGCCACCGGCCAGCAGCCCTCTGTGATGTGTGTGCAGAGTGAACAGAGGACTCAGTTTCATAGCAGC
TAGTGCGGGGCATCCTCATCCTGTACCTATAGAGTTCTGTCACTCCCCATCCATGCTACCTACCTCCCCGTTTC
TGTTTCAGTTTTAAGACAATGAAGCAGCATTCACTGCGTCATTGTAACATGAAGGGATAAAAAATGAAGGAGAAGG
AGGGTTTGGGATGGGTGTCTAAGGCAGGAGTTGACATCGGGCAACCAAGAAATGAGTTTGGGGAGGAACACAA
CTCCCATCCAGTCAGTTTCTTCCATGGCTGCATCTTAAGATGGATGCACGGAGAAACCGTCTGCCTGGCTCC
CTGTCTTCATTCTCCACGCAGCCTGGTGATGGCAGGCCTGGGTTTGGATTTGAGAATCCTAGCTCCGGGCTCCAC
TCGTGTGGCAGCAAGACTGCTTCGTTCCAGCGTTTAGAAACACACCTGTATTTGATTCTCAGCCAGGGGAGCACT
CGCTGCACTGGTGGGAGGCGGTTGGGAAAGTTGCAGGAAAACCTTAGTCTTCCATCCTTCTGACCCATGGTGGAA
ATTACACCATGGATTTTTAATGGATCTTTGTTCTAGGCAGCTGGGAATAGACATGGTACTTACCTTAGAGTTTT
CCAATTTATCTCAATTTTTATATGGCTTGTGATTCATTTTCTTAATCCAAATATATATAAACGTGTGTGGTCTTAT
TCTTCCCCCTGCAGTTTCTTGCTTCTTTCAGCACATCTTATAGTATGAGAAGGAAGGTTTGGGCATGTTGGGAAG
GGCGGTGGAGGGGGAGTTGCAGAAAGAGAGGGCAGTGAGGTGAGGAGAGGGGATCTGGGGACTTGGGTGTGACA
CCTGCTTGACAGAGGCAGGGCTGTGGCCAGGACCAACCTTCAATTCCATTCCAATCAGCCTTTGCATTTGTGGA
TCTCGTGGCTTCTTTTTAATCTTTTGTGGGGATTAGTTTCATGCTGCACATAATGGGGTTGCACTGGTCTGACC
CAGGACTTTGGAGCCACCCACACTGGGAAGACTAGGCTAGGCAGTCGGTCTTCTAGGAGTTTCTCAGCCCCCTAG
GACGCGGTCTCCTTGGGCTCCCCAAGGGTTCTGCGAAGAGGCAGTGGAAGAAGGCATGAGGAGAGGGTCTCTT
GAGAATTTGCCAATAGGAAGGAGTGGCCACGGCTGAAAGGAACAAGACAGATCCTGACATAGCTTTGGCCTGGGT

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FIGURE 4773B

GTTAGGTCAGAAGGAGTACTGGTGCGTGGGGGCCCTTACCCCAGGGTTGAGTATTTTATCTGTAAAATGTTATCTG
CCCTTTGGCTGCATTGGAATTTAGAGAAGGCTGCAGAGGCCTGGGTTACACAGCCTGAGTCACAACGTGGGAAG
GAATCTCTGCCACGGGAAAGGTGGGCGGAAGCAGCTGGCAGCCTGGGGCGTGCTTCAGGCTCCTCCCTCTAAGGG
GCGCCATGGGAACAGGCTCCGGAGGGAGCCGGCGTCTGAAAGGCCCCCGGGACCTGCTGCAGTGCCAGAGGGGCC
TCTGGAGCAGGCCTGGCTTTTAAATGGGGGGCTGAATTCCAGCTCACACACACCTCAAGTCCAACCTTACTTTCT
TCAGCCAGAATACATTTCTTGTA AACCTGGCTTGTTGCTTGGCTTTTAAAGATGGTGTATGTTTGTA AAAATAT
TCTTCTGGGCTCAAAAGCTAGCTTGAGGGGGCAGATGCCCCAGGTGTCCAGCTCCACAGCCCCCTGGCAGATCCC
AGACCCCTTGGTGGCAGGTCCCAGAGCCTAGGTGGTAGGAGCTTGATCTTTGTTTCTGCCCTTACCCCTCAGTAG
TGGGGCTGCGAGGTAGTAGACAGGATGCCAGTTAAGTTTGAATTTAGATAGAAAATAATTTTAGAATAAATAT
GTTCTATCTAATACATGGGACAGATGTTATTTTTAGAGATAGGATCTTGCTCTGTTGCCAGGCTGGAGTGTAGT
GGTATGATCATAGCTCACCACAACCTTGAACCTCCAGGCTCAAGCGATCCTCCCGCCTTAAGTGCCTGAGTAGCT
GGGACTACAGGCATGCACCACCACGCCAGCTAATTTTTCTTATTTTTGTAGAGACAGGGTCTCACTGTGTTGC
CTCACTCGAGCTGCTGACCTCAAGTGATCCTCCACCTCAGCCTGCCAAAGCACTGGGATTACAGGCATGAGCCA
CCATGCCTGGCCAGGACATATTTGAAATGGGGAGATTTTAAAAATTCTGATGATTAGACTGAATCCTCAGACGTT
CTGGTTTGATTGTTGTGGGTGTAGCCAGGCATGGGATTTTTTAAAGAGCTGCTCAGGTAATTCCAATTTAATTG
CGTGTCTACTTGGGTTTTTTGTTTGTATTTTATTGTTTTTGTCTAAACCTGGCAACCCTACCGAGTAGGGATTAGC
AGTAACCTTATCTGAAATTTAGAGGTGTTTTGGGGGTGGGGCGAGGGTTTCTGTAGTAGACTCAGATTTTACATGG
CCCTGAGCTGCCCTTGCCTTCAGTTGGAAGCCACGCAAAATGAACTGAACCAGGAGTGAGCTTCGTGTACATTAT
CTATTAGAAAATGAAGTACCTTCTGGTTCAGCTAGTCCCTGTGCGTTGAGAGGCTTTAAGAACTTCTAGTAAAA
ATGTTTTTTTCTTTTAGCTTTGAATTGGCCAGAGTTTATCCTAGATTATTTTATTTTAAATTGGTAGAATTCCTT
GCGAACTGTACAGAGAAATTCCTTTTCATGACTTTATTTCTGACCTATTAAACATGAACAGGCCAGGCATGGT
GGCTCACGCCTGTAATCCTAGCACTTGGGAGGCAGTGGCAGGCGGATCACTTGAGCTCAGGAGTCCTAAACCAGC
CTGGGCAACATAGTGATACCTTGCTCTACCAAAAGTT

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FIGURE 4774

MKGCEELLKDVLSVESAGTLPCAPEIPDCVEQGSEVTGPTFADGELIPREPGFFPEDEEEEAMTLAPPEGPQELYT
DSPMESTQSLEGSVGSPA EKDGGLGGLFLPEDKSLVHTPSMTTSDLSTHSTTSLISNEEQFEDY GEGDDVDCAPS
SPCPDDETRTNVYSDLGSSVSSSAGQTPRKMRHVYNSEL LDVYCSQCCKINLLNDLEARLKNL KANS PNRKISS
TAFGRQLMHSSNFSSSNGSTEDLFRDSIDSCDNDITEKVSFLEKKVTELEND SLTNGDLKSKLKQENTQLVHRVH
ELEEMVKDQETTAEQALEEEEARRHREAYGKLEREKATEVELLNARVQQLEEEENTELRTTVTRLKSQTEKLDEERQ
RMSDRLEDTSRLKDEMDLYKRMDKLRQNRLEFQKEREATQELIEDLRKELEHLQMYKLD CERPGRGRSASSGL
GEFNARAREVELEHEVKRLKQENYKLRDQND DLNGQILSLSLYEAKNLFAAQTKAQSLAAEIDTASRDELMEALK
EQEEINFR LRQYMDKII LAILDHNP SILEIKH

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FIGURE 4775

GGCTGATTGGCGCTTCTGCGGCGGATCCTCGGGCGGGCAGCCGGGCCGGCGCGTCACGTGGCCACGGCGTCCAG
GGCGACCAGCCGCGGGCCGCAGGGCATGGACCTTCAGGCCGCCGGGGCCCAGGCGCAGGGGGCCGCGGAGCCGTC
TCGGGGCCCGCCGCTGCCTAGCGCGCGGGGGGCGCCCCCAGCCCGGAGGCTGGCTTTGCTACAGCTGACCACTC
CAGTCAGGAGAGAGAGACTGAGAAGGCTATGGATCGACTAGCCCGTGGAACACAGAGCATTCTAATGACAGTCC
TGCCCGGGGTGAGGGCACCATTCTGAAGAGGAAGGCTTTGCCATGGATGAGGAGGACTCTGATGGAGAAGTGA
TACCTGGGAGCTGTCAGAAGGGACAACTGTCCACCCAAGGAACAGCCTGGCGATCTTTTAAATGAGGACTGGGA
CTCGGAGTTGAAAGCAGATCAAGGGAATCCATATGATGCTGACGACATCCAGGAGAGCATTCTCAAGAGCTTAA
ACCTTGGGTGTGCTGTGCCCCACAAGGAGACATGATCTATGACCCAGCTGGCACCATCCGCCTCCACTGATACC
CTATTATTCCAAGATGGTCTTTGAAACAGGACAGTTTGACGATGCTGAAGATTGAGTGTGGAGCTTTCTGCCTTG
TAGGTGGGCGGGCCTCCACGTCAAGATCTCTTTTCCTGTCTTGGAGGTGAAAAGTCATATCTGAGAAAATGTTTG
CAGTGACCCCTAGTCTGGGTACACAGACCAGTGTTCCTTATTGACAGTGTTCAATAAGGCCCGTCATTCTCGC
CAGTCTGTTGTTGTTCTTAATGGGCTCCTCCTTGAAATGTGTGTGTGTTTGTGTCAAGAGGAGTTGTGTTCTTG
TAAATAAAGGTTAAAAAGAG

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FIGURE 4776

MDLQAAGAAQAQGAAEPSRGPPLP SARGAPP SPEAGFATADHSSQERETEKAMDRLARGTQSIPNDSPARGEETHS
EEEGFAMDEEDSDGELNTWELSEGTCPPKEQPGDLFNEDWDSELKADQGNPYDADDIQESISQELKPWVCCAPQ
GDMYDPSWHPPLIPYYSKMVFETGQFDDAED

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FIGURE 4777

GAGGCGGAGCGGGGAACGAGGCCGTCGGCCATTTTGTGTCTGCTTCCTGTGGGACGTGGTGGTAGCCGTTGGGTT
GGGAAAGTGAGGGATTTTGGCCTCGTTTCTCCTGCTTCTTTTCTCCTCCCTTTTACTTTGCCGGTAGAACACAG
TTATGGGTGCGAAGAAGAAGAAGCAGCTGAAGCCGTGGTGCTGGTATTGTAATAGAGATTTTGATGATGAGAAGA
TCCTTATTCAGCACCAAAAAGCAAAGCATTTTAAATGCCATATATGTCACAAGAAATTGTATACAGGACCTGGCT
TAGCTATTCAATTGCATGCAGGTACATAAAGAAACAATAGATGCCGTACCAAATGCAATACCTGGAAGAACAGACA
TAGAGTTGGAAATATATGGTATGGAAGGTATTCCAGAAAAAGACATGGATGAAAGACGACGACTTCTTGAACAGA
AAACACAAGAAAGTCAAAAAAAGAAGCAACAAGATGATTCTGATGAATATGATGATGACGACTCTGCAGCCTCAA
CTTCATTTTCAGCCACAGCCTGTTCAACCTCAGCAAGGTTATATTCCCTCCAATGGCACAGCCAGGACTGCCACCAG
TACCAGGAGCACCAGGAATGCCCTCAGGCATACCTCCATTAATGCCAGGTGTTCCCTCCTCTGATGCCAGGAATGC
CACCAGTTATGCCAGGCATGCCACCTGGATTGCATCATCAGAGAAAAATACACCCAGTCATTTTGCGGTGAAAACA
TAATGATGCCAATGGGTGGAATGATGCCACCTGGACCAGGAATACCACCTCTGATGCCCTGGAATGCCACCAGGTA
TGCCCCACCTGTTCCACGTCCTGGAATTCCTCCAATGACTCAAGCACAGGCTGTTTCAGCGCCAGGTATTCTTA
ATAGACCACCTGCACCAACAGCAACTGTACCTGCCCCACAGCCTCCAGTTACTAAGCCTCTTTTCCCCAGTGCTG
GACAGATGGGGACACCTGTCAAGCTCAAGTACAGCTTCATCCAATTCAGAAAGTCTGTCTGCATCTTCTAAAG
CTCTGTTTCCTAGCACAGCACAAAGCTCAGGCAGCTGTCCAAGGACCTGTTGGTACAGATTTCAAACCTTAAATA
GTACCCCTGCAACAATACTACAGAACCCCCAAAGCCTACATTCCCTGCTTATACACAGTCTACAGCTTCAACAATA
GTACAACAAATAGTACTGCAGCTAAACCAGCGGCTTCAATAACAAGTAAGCCTGCTACACTTACAACAATACTAGTG
CAACCAGTAAGTTGATCCATCCAGATGAGGATATATCCCTGGAAGAGAGAAGGGCACAGTTACCTAAGTATCAAC
GTAATCTTCTCGGCCAGGACAGGCCCCCATCGGTAATCCACCAGTTGGACCAATTGGAGGTATGATGCCACCAC
AGCCAGGCATCCCACAGCAACAAGGAATGAGACCCCCAATGCCACCTCATGGTCAGTATGGTGGTCATCATCAAG
GCATGCCAGGATACCTTCTGCTGCTATGCCCCGATGGGCAGGGACCGCCAATGGTGCCCCCTTACCAGGGTG
GGCCTCCTCGACCTCCGATGGGAATGAGACCTCCTGTAATGTCGCAAGGTGGCCGTTACTGATCTTACTTCATCC
AGTCTAATAGGTTTGGAGATTAAACCTTTTCTCAACTTGTGCTGTTTATATAGCCAAGCTTCCGTCATAAAGGCT
TCATTGTGACTTTAAACAAACATTATCTTCCCACATACCAGGAATAATTGGACATTTATTTTACATGGGAAAAATT
ATTTGGAATAATAAAGCAGGAACCTTTTCTGAAGTTGCAATTTATACTGTATGGCTTCTTTTTTCATGTTTCATCT
AGGTTTTTAGAAGTGAAGTATAGTAAATTTGGTTCGTTAAATTGTGAAGGCGCTGGAATTACATGAACATACCAC
CCTAGTAAAGGCAAGTTCTGTAAGCTTACATTGCTATTTGTAAAGTTTGCCTTCACAGCATTTTCAATGCTGTTG
GACTTCATGTCCCCAACCTAGCTTGGTGAGGGCTGTAAGTGTTCCTCAAGTACTTGTACATTGGAAGTCTGAATGT
GTAACAATATTTAATGTATTTAGAGTTCCTCATGTTGCAGGGTTTAAAGAAATCTGACCCACCAAGGTCATGTGAC
TTTTCTGTACTGTTAAACTTCATTGTAATAAAATGAGAGAAAAATTTATGCCTTTTTTATTCATAACCCAGCTGTG
GACCACTGCCTGAAAGGTTTGTACAGATGCATGCCACAGTAGATGTCCACATAATAAAATTCATAGTTACCAATG
CA

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FIGURE 4778

ATGCGGCGGCGGCGGCGGTGGTGGAGTTCCAGAGAGCCCAGTCTCTACTCAGCACCGACCGGGAGGCCTCCATCGAC
ATCCTCCACTCCATCGTGAAGCGTGACATTTCAGGAAAACGATGAAGAGGCAGTGCAAGTCAAAGAGCAGAGCATC
CTGGAAC TGGGATCTCTCCTGGCAAAGACTGGACAAGCTGCAGAGCTTGGAGGACTCCTGAAGTATGTACGACCC
TTCTTGAATTCCATCAGCAAGGCTAAAGCAGCTCGCCTGGTCCGATCTCTTCTTGATCTGTTTCTTGATATGGAA
GCAGCTACAGGGCAGGAGGTTCGAGCTGTGTTTAGAGTCCATCGAATGGGCCAAGTCAGAGAAAAGAACTTTCTTA
CGCCAAGCTTTGGAGGCAAGACTGGTGTCTTTGTACTTTGATACCAAGAGGTACCAGGAAGCATTGCATTTGGGT
TCTCAGCTGCTGCGGGAGTTGAAAAAGATGGACGACAAAGCTCTTTTGGTGGAAGTACAGCTTTTAGAAAGCAAA
ACATACCATGCCCTGAGCAACCTGCCGAAAGCCCCGAGCTGCCTTAACTTCTGCTCGAACCACAGCAAAATGCCATC
TACTGCCCCCTAAATTGCAGGCCACCTTGGACATGCAGTCGGGTATTATCCATGCAGCAGAAGAGAAGGACTGG
AAAAGTGCCTACTCATACTTCTATGAGGCATTTGAGGGTTATGACTCCATCGACAGCCCCAAGGCCATCACATCT
CTGAAGTACATGTTGCTGTGCAAAATCATGCTCAACACCCCAAGATGTCCAGGCTTTGGTGAGCGGGAAGCTT
GCACCTTCGGTATGCAGGGAGGCAGACAGAAGCATTAAAATGCGTGGCTCAGGCTAGCAAGAACAGATCACTGGCA
GATTTTGAAGAGGCTCTGACAGATTACCGGGCAGAGCTCCGGGATGACCCAATCATCAGCACACACTTGGCCAAG
TTGTATGATAACTTACTAGAACAGAATCTGATCCGAGTCATTGAGCCTTTTTCCAGAGTACAGATTGAACACATA
TCTAGTCTCATCAAACCTCTCAAGGCCGACGTGGAAAGGAAATTATCACAGATGATTCTTGACAAGAAATTCAT
GGGATTTTGGACCAGGGGGAGGGTGTCTGATTATTTTCGATGAACCCCAAGTAGATAAACTTACGAAGCTGCT
CTGGAACAATTGAGAATGAGCAAAGTAGTGGATTCCCTCTACAACAAGCCAAGAACTGACATAG

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FIGURE 4779

MAAAVVEFQRAQSLLSTDREASIDILHSIVKRDIQENDEEAVQVKEQSILELGSLAKTGQAAELGGLLKYP
FLNSISKAKAARLVRSLLDLFLDMEAATGQVELCLESIEWAKSEKRTFLRQALEARLVSLYFDTKRYQEALHLG
SOLLRELKKMDDKALLVEVQLLESKTYHALSNLPKARAALTSARTTANAIYCPPKLQATLDMQSGIIHAAEEKDW
KTAYSFYEAFFEGYDSIDSPKAITSLKYMLLCKIMLNTPEDVQALVSGKLALRYAGRQTEALKCVAQASKNRS
LADFEKALTDYRAELRDDPIISTHLAKLYDNLLEQNLRVIEPFSRVQIEHISSLIKLSKADVERKLSQMILDKKFH
GILDQGEGLIIFDEPPVDKTYEAALETIQNMSKVVDLSYNKAKKLT

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FIGURE 4780

GGCAGGCCCCGCGCCCGCGCCCGGACTTTGCCATCGGCGGGGCAGTCGCGGGATGCGCCCGGGAGCCACAGCCTGA
GGCCCTCAGGTCTCTGCAGGTGTCGTGGAGGAACCTAGCACCTGCCATCCTCTTCCCCAATTTGCCACTTCCAGC
AGCTTTAGCCCATGAGGAGGATGTGACCGGGACTGAGTCAGGAGCCCTCTGGAAGCATGGAGACTGTGGTGATTG
TTGCCATAGGTGTCCTGGCCACCATCTTTCTGGCTTCGTTTGCAGCCTTGCTGGTGGTTTGCAGGCAGCGCTACT
GCCGGCCGCGAGACCTGCTGCAGCGCTATGATTCTAAGCCCATTGTGGACCTCATTGGTGCCATGGAGACCCAGT
CTGAGCCCTCTGAGTTAGAACTGGACGATGTCGTTATCACCAACCCCCACATTGAGGCCATTCTGGAGAATGAAG
ACTGGATCGAAGATGCCTCGGGTCTCATGTCCCACTGCATTGCCAICTTTGAAGATTTGTCACACTCCGACAGAGA
AGCTTGTTGCCATGACAATGGGGCTCTGGGGCCAAGATGAAGACTTCAGCCAGTGTGACGACATCATTGTGGTG
CCAAGCGGATCAGCCCCAGGGTGGATGATGTTGTGAAGTCGATGTACCCCTCCGTTGGACCCCAAACCTCCTGGACG
CACGGACGACTGCCCTGCTCCTGTCTGTGAGTCACCTGGTGCTGGTGACAAGGAATGCCTGCCATCTGACGGGAG
GCCTGGACTGGATTGACCAGTCTCTGTGCGCTGCTGAGGAGCGTTTGGAAGTCCTTCGAGAAGCAGCCCTAGCTT
CTGAGCCAGATAAAGGCCTCCAGGCCCTGAAGGCTTCCTGCAGGAGCAGTCTGCAATTTAGTGCCTACAGGCCA
GCAGCTAGCCATGAAGGCCCTGCCGCCATCCCTGGATGGCTCAGCTTAGCCTTCTACTTTTTCTATAGAGTTA
GTTGTTCTCCACGGCTGGAGAGTTTCACTGTGTGTGCATAGTAAAGCAGGAGATCCCCGTCAGTTTTATGCCTCTT
TTGCAGTTGCAAACTGTGGCTGGTGAGTGGCAGTCTAATACTACAGTTAGGGGAGATGCCATTCACTCTCTGCAA
GAGGAGTATTGAAAACGGTGGACTGTCAGCTTTATTTAGCTCACCTAGTGTTTTCAAGAAAATTGAGCCACCGT
CTAAGAAATCAAGAGGTTTACATTAAAATTAGAATTTCTGGCCTCTCTCGATCGGTCAGAATGTGTGGCAATTC
TGATCTGCATTTTCAAGAGGACAATCAATTGAACTAAGTAGGGGTTTCTTCTTTTGGCAAGACTTGTAATCT
CTCACCTGGCCTGTTTCAATTTATTTGTATTATCTGCCTGGTCCCTGAGGCGTCTGGGTCTCTCCTCTCCCTTGCA
GGTTTGGGTTTGAAGCTGAGGAACTACAAAGTTGATGATTTCTTTTTTATCTTTATGCCTGCAATTTTACCTAGC
TACCACTAGGTGGATAGTAAATTTATACTTATGTTTCCCTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4781

METVVIVAIGVLATIFLASFAALVLVCRQRYCRPRDLLQRYDSKPIVDLIGAMETQSEPSELELDDVVITNPHIE
AILENEDWIEDASGLMSHCIAILKICHTPTEKLVAMTMGSGAKMKTSASVSDIIVVAKRISPRVDDVVKSMYPPL
DPKLLDARTTALLLSVSHLVLVTRNACHLTGGLDWIDQSLSAAEERLEVLREAALASEPDKGLPGPEGFLQEQSA
I

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FIGURE 4782

ATGCTGAAGCTCACACCCTTGCCCTCCAAGATGAAGGTTTCTGCAGCGCTTCTGTGCCTGCTGCTCATGGCAGCC
ACTTTCAGCCCTCAGGGACTTGCTCAGCCAGATTTCAGTTTCCATTCCAATCACCTGCTGCTTTAACGTGATCAAT
AGGAAAATTCCTATCCAGAGGCTGGAGAGCTACACAAGAATCACCAACATCCAATGTCCAAGGAAGCTGTGATC
TTCAAGACCCAACGGGGCAAGGAGGTCTGTGCTGACCCCAAGGAGAGATGGGTCAGGGATTCCATGAAGCATCTG
GACCAAATATTTCAAAATCTGAAGCCATTGA

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FIGURE 4783

MLKLTPLP SKMKVSAALLCLLLMAATFSPQGLAQPDVSIPITCCFNVINRKIP IQRLESYTRITNIQCPKEAVI
FKTQRGKEVCADPKERWVRDSMKHLDQIFQNLKP

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FIGURE 4784

CTGGAACCCGGAAGCGGCAGCGCGGCGGACCCGGCGGGCGGGCTCTGGGCGCGGGAATCCCGGCGGATCCCGGG
CGGGCGGATGACCCCCAGCCCTACCCTTGGTGCCGCCTCCTCCTCTCCTTTCTCCTCCGGCAGCCAGCGCGCC
TGTGTCTCTCTAGGAAGGGGTAGGGGAGGGGCGTCTGGAGAGGACCCCCGCGAATGCCACGTGACGTGCAGT
CCCCCTGGGGCTGTTCGGCCTGCGGGGAACATGGGCGTGCTCAGGGTCGGACTGTGCCCTGGCCTTACCGAGGA
GATGATCCAGCTTCTCAGGAGCCACAGGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGC
TCAGAAATGTGGCTGTCTTACAAGGCCCTGGTTGCCCTGAGGCGGGTGCTGCTGGCTCAGTTCTCGGCTTTCCC
CGTGAATGGCGCTGATCTCCACGAGGAAGTGAAGACCTCTACTGCCATCCTGTCCACTGGCATTGGCAGTCTTGA
TAAACTGCTTGATGCTGGTCTCTATACTGGAGAAGTGAAGTGAAGTGTAGGAGGCCAGGTAGCGGCAAACTCA
GGTATGTCTCTGTATGGCAGCAAAATGTGGCCCATGGCCTGCAGCAAAACGTCCTATATGTAGATTCCAATGGAGG
GCTGACAGCTTCCCGCCTCCTCCAGCTGCTTCAGGCTAAAACCCAGGATGAGGAGGAACAGGCAGAAGCTCTCCG
GAGGATCCAGGTGGTGATGCATTTGACATCTTCAGATGCTGGATGTGCTGCAGGAGCTCCGAGGCAGTGTGGC
CCAGCAGGTGACTGGTTCTTCAGGAAGTGTGAAGGTGGTGGTTGTGGACTCGGTCACTGCGGTGGTTTCCCCACT
TCTGGGAGGTGAGCAGAGGGAAGGCTTGGCCTTGATGATGCAGCTGGCCCGAGAGCTGAAGACCCTGGCCCGGGA
CCTTGGCATGGCAGTGGTGGTGACCAACCACATAACTCGAGACAGGGACAGCGGGAGGCTCAAACCTGCCCTCGG
ACGCTCCTGGAGCTTTGTGCCCAGCACTCGGATTCTCCTGGACACCATCGAGGGAGCAGGAGCATCAGGCGGCCG
GCGCATGGCGTGTCTGGCCAAATCTTCCCAGACAGCCAACAGGTTTCCAGGAGATGGTAGACATTGGGACCTGGGG
GACCTCAGAGCAGAGTGCCACATTACAGGGTGATCAGACATGACCTGTGCTGTTGTTGGGAAACAGGGAAGCAT
TGGGGACCCCTCCCAACTTTTCTTCCCAGTAACGCCTGCTGTTTACTGCCACCTGGCACTGGTGACTACAGACGT
TCTCAGGCTGGCCAGAAGAGACATCTTGGGTTTCTTGGCCTCACTCTCTGTAAGCATATAAACCACAGGCGAAAG
AGGATGCTGCATTGCGAGGACCCAGAAATTCATACTGGTGCCACGTTTCTTCCCTTATTTCTAACGTGTATGTT
TCTGGTGGAAACCAAGTTACCCCTGGCTGGGAGCATCTCTGATGAGGCATGCTGGCGACTGGATGGATAATCCTG
TGCATCACCATTGTGTCTGTGCTCCCTCCTAGCGCAGTGGCCAAGCCGGGAAAGCCTCTAACTTGCCCTTGCTG
CTGCTGCCTTTTTTTTCTTTTGTCTCTGCCCTTCCATTTGTTAGATGGGGGCCACTCTTCCCTTAGCTCTGTCTC
TGAGTTACTGGGTGGAAATAAGCTTATAAATGAAATACTCTTCTTCATCTCTGTTTTGCTCTTAAAAATATAAAA
AGGCAATTCCCCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4785

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKALVALRRVLLAQFSAFPVNGADLHEEL
KTSTAILSTGIGSLDKLLDAGLYTGEVTEIVGGPGSGKTQVCLCMAANVAHGLQQNVLYVDSNGGLTASRLLQLL
QAKTQDEEEQAEALRRIQVVHAFDIFQMLDVLQELRGTVAAQVVGSSGTVKVVVDSVTAVVSPLLGGQOREGLA
LMMQLARELKTLLARDLGMAVVVTNHITRDRDSGRLKPALGRSWSFVPSTRILLDTIEGAGASGGRRMACLAKSSR
QPTGFQEMVDIGTWGTSEQSATLQGDQT

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FIGURE 4786

CTGGAACCCGGAAGCGGCAGCGCGCGACCCGGCGGGCGGGCTCTGGGCGCGGGAATCCCGGCGGATCCCGGG
CGGGCGGATGACCCCCAGCCCTACCCCTTGGTGCCGCCTCCTCCTCTCTCCTTTCTCCTCCGGCAGCCAGCGCGCC
TGTGTCTCTCTAGGAAGGGGTAGGGGAGGGGCGTCTGGAGAGGACCCCCGCGAATGCCACGTGACGTGCAGT
CCCCCTGGGGCTGTTCCGGCCTGCGGGGAACATGGGCGTGCTCAGGGTCGGACTGTGCCCTGGCCTTACCGAGGA
GATGATCCAGCTTCTCAGGAGCCACAGGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGC
TCAGAAATGTGGCTTGTCTTACAAGTCTTGATAAACTGCTTGATGCTGGTCTCTATACTGGAGAAGTGACTGAAA
TTGTAGGAGGCCCAGGTAGCGGCAAACTCAGGTATGTCTCTGTATGGCAGCAAATGTGGCCCATGGCCTGCAGC
AAAACGTCTATATGTAGATTCCAATGGAGGGCTGACAGCTTCCCGCCTCCTCCAGCTGCTTCAGGCTAAAACCC
AGGATGAGGAGGAACAGGCAGAAGCTCTCCGGAGGATCCAGGTGGTGCATGCATTTGACATCTTCCAGATGCTGG
ATGTGCTGCAGGAGCTCCGAGGCACTGTGGCCAGCAGGTGACTGGTTCTTCAGGAAGTGTGAAGGTGGTGGTTG
TGGACTCGGTCACTGCGGTGGTTTCCCCACTTCTGGGAGGTGAGCAGAGGGAAGGCTTGGCCTTGATGATGCAGC
TGGCCCGAGAGCTGAAGACCTGGCCCGGGACCTTGGCATGGCAGTGGTGGTGACCAACCACATAACTCGAGACA
GGGACAGCGGGAGGCTCAAACCTGCCCTCGGACGCTCCTGGAGCTTTGTGCCAGCACTCGGATTCTCCTGGACA
CCATCGAGGGAGCAGGAGCATCAGGCGGCCGGCGCATGGCGTGTCTGGCCAAATCTTCCCGACAGCCAACAGGTT
TCCAGGAGATGGTAGACATTGGGACCTGGGGGACCTCAGAGCAGAGTGCCACATTACAGGGTGATCAGACATGAC
CTGTGCTGTTGTTTGGGAAACAGGGAAGCATTGGGGACCCCTCCCAACTTTTCTTCCAGTAACGCCTGCTGTTT
ACTGCCACCTGGCACTGGTGACTACAGACGTTCTCAGGCTGGCCAGAAGAGACATCTTGGGTTTCTTGGCCTCAC
TCTCTGTAAGCATATAAACCACAGGCGAAAGAGGATGCTGCATTGCGAGGACCCAGAAATTCATACTGGTGCCAC
GTTTCCTTCCCTTATTTCTAACGTGTATGTTTCTGGTGGAACCAAGTTTACCCTGGCTGGGAGCATCTCTGATG
AGGCATGCTGGCGACTGGATGGATAATCCTGTGCATCACCATTGTGTCCTGTGCTCCCTCCTAGCGCAGTGGCCA
AGCCGGGAAAGCCTCTAACTTGCCCTTGCTGCTGCTGCCTTTTTTTTTCTTTTGTCTCTGCCTTTCCATTTGTTAG
ATGGGGGGCCCACTCTTCCTTAGCTCTGTCTCTGAGTTACTGGGTGGAATAAGCTTATAAATGAAATACTCTTCT
TCATCTCTGTTTTGCTCTTAAAAATATAAAAAGGCAATTCCCCG

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FIGURE 4787

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKS

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FIGURE 4788

CTGGAACCCGGAAGCGGCAGCGCGCGCGACCCGGCGGGCGGGCTCTGGGCGCGGGAATCCCGGCGGATCCCGGG
CGGGCGGATGACCCCCAGCCCTACCCTTGGTGCCGCCTCCTCCTCTCTCCTTTCTCCTCCGGCAGCCAGCGCGCC
TGTGTCCTCTCTAGGAAGGGGTAGGGGAGGGGCGTCTGGAGAGGACCCCCGCGAATGCCACGTGACGTGCAGT
CCCCCTGGGGCTGTTCCGGCCTGCGGGGAACATGGGCGTGCTCAGGGTCGGACTGTGCCCTGGCCTTACCGAGGA
GATGATCCAGCTTCTCAGGAGCCACAGGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGC
TCAGAAATGTGGCTTGTCTTACAAGTCTTGATAAACTGCTTGATGCTGGTCTCTATACTGGAGAAGTGAAGTAAA
TTGTAGGAGGCCCAGGTAGCGGCAAACTCAGGCAGAAGCTCTCCGGAGGATCCAGGTGGTGCATGCATTTGACA
TCTTCCAGATGCTGGATGTGCTGCAGGAGCTCCGAGGCACTGTGGCCCAGCAGGTGACTGGTTCTTCAGGAACTG
TGAAGGTGGTGGTTGTGGACTCGGTCACTGCGGTGGTTTCCCCACTTCTGGGAGGTCAGCAGAGGGAAGGCTTGG
CCTTGATGATGCAGCTGGCCCCGAGAGCTGAAGACCCTGGCCCCGGGACCTTGGCATGGCAGTGGTGGTGACCAACC
ACATAACTCGAGACAGGGACAGCGGGAGGCTCAAACCTGCCCTCGGACGCTCCTGGAGCTTTGTGCCCAGCACTC
GGATTCTCCTGGACACCATCGAGGGAGCAGGAGCATCAGGCGGCCGGCGCATGGCGTGTCTGGCCAAATCTTCCC
GACAGCCAACAGGTTTCCAGGAGATGGTAGACATTGGGACCTGGGGGACCTCAGAGCAGAGTGCCACATTACAGG
GTGATCAGACATGACCTGTGCTGTTGTTTGGGAAACAGGGAAGCATTGGGGACCCCTCCCAACTTTTCTTCCCAG
TAACGCCTGCTGTTTACTGCCACCTGGCACTGGTGACTACAGACGTTCTCAGGCTGGCCAGAAGAGACATCTTGG
GTTCCCTTGGCCTCACTCTCTGTAAAGCATATAAACCACAGGCGAAAGAGGATGCTGCATTGCGAGGACCCAGAAAT
TCATACTGGTGCCACGTTTCCCTTCCCTTATTTCTAACGTGTATGTTTCTGGTGGAACCAAGTTCACCCTGGCTG
GGAGCATCTCTGATGAGGCATGCTGGCGACTGGATGGATAATCCTGTGCATCACCATTGTGTCTGTGCTCCCTC
CTAGCGCAGTGGCCAAGCCGGGAAAGCCTCTAACTTGCCTTTGCTGCTGCTGCCTTTTTTTTCTTTTGTCTCTGC
CTTTCCATTTGTTAGATGGGGGCCCACTCTTCCTTAGCTCTGTCTCTGAGTTACTGGGTGGAAATAAGCTTATAA
ATGAAATACTCTTCTTCATCTCTGTTTTGCTCTTAAAAATATAAAAAGGCAATTCCCCG

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FIGURE 4789

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKS

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FIGURE 4790

CTGGAACCCGGAAGCGGCAGCGCGCGCGACCCGGCGGGCGGGCTCTGGGCGCGGGAATCCCGGCGGATCCCGGG
CGGGCGGATGACCCAGCCCTACCCTTGGTGCCGCCTCCTCCTCTCTCCTTTCTCCTCCGGCAGCCAGCGCGCC
TGTGTCTCTCTAGGAAGGGGTAGGGGAGGGGCGTCTGGAGAGGACCCCCGCGAATGCCACGTGACGTGCAGT
CCCCCTGGGGCTGTTCCGGCCTGCGGGGAACATGGGCGTGCTCAGGGTCGGACTGTGCCCTGGCCTTACCGAGGA
GATGATCCAGCTTCTCAGGAGCCACAGGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGC
TCAGAAATGTGGCTTGTCTTACAAGGCAGAAGCTCTCCGGAGGATCCAGGTGGTGCATGCATTGACATCTTCCA
GATGCTGGATGTGCTGCAGGAGCTCCGAGGCAGTGTGGCCAGCAGGTGACTGGTTCTCAGGAAGTGTGAAGGT
GGTGGTTGTGGACTCGGTCAGTGCAGTGGTTTCCCACTTCTGGGAGGTCAGCAGAGGGAAGGCTTGGCCTTGAT
GATGCAGCTGGCCCGAGAGCTGAAGACCCTGGCCCGGGACCTTGGCATGGCAGTGGTGGTGACCAACCACATAAC
TCGAGACAGGGACAGCGGGAGGCTCAAACCTGCCCTCGGACGCTCCTGGAGCTTTGTGCCCAGCACTCGGATTCT
CCTGGACACCATCGAGGGAGCAGGAGCATCAGGCGGCCGGCGCATGGCGTGTCTGGCCAAATCTCCCGACAGCC
AACAGGTTTCCAGGAGATGGTAGACATTGGGACCTGGGGGACCTCAGAGCAGAGTGCCACATTACAGGGTGATCA
GACTGACCTGTGCTGTTGTTGGGAAACAGGGAAGCATTGGGGACCCCTCCCAACTTTTCTTCCAGTAACGCC
TGCTGTTTACTGCCACCTGGCACTGGTGACTACAGACGTTCTCAGGCTGGCCAGAAGAGACATCTTGGGTTCTT
GGCCTCACTCTCTGTAAGCATATAAACACAGGCGAAAGAGGATGCTGCATTGCGAGGACCCAGAAATTCATACT
GGTGCCACGTTTCTTCCCTTATTTCTAACGTGTATGTTTCTGGTGGAAACCAAGTTACCCCTGGCTGGGAGCAT
CTCTGATGAGGCATGCTGGCGACTGGATGGATAATCCTGTGCATCACCATTGTGTCTGTGCTCCCTCCTAGCGC
AGTGGCCAAGCCGGGAAAGCCTCTAACTTGCCTTTGCTGCTGCTGCCTTTTTTTTCTTTTGTCTCTGCCTTTCCA
TTTGTTAGATGGGGGCCCCACTCTTCCTTAGCTCTGTCTCTGAGTTACTGGGTGGAAATAAGCTTATAAATGAAAT
ACTCTTCTTCATCTCTGTTTTGCTCTTAAAAATATAAAAAGGCAATTCCCCG

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FIGURE 4791

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKAEALRRIQVVHAFDIFQMLDVLQELRG
TVAQQVTGSSGTVKVVVDSVTAVVSPLLGGQQREGLALMMQLARELKTLDLGMVAVVTNHITRDRDSGRLKP
ALGRSWSFVPSTRILLDTIEGAGASGGRRMACLAKSSRQPTGFQEMVDIGTWGTSEQSATLQGDQT

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FIGURE 4792

GTGGGGACGCAGGATGCGGGCAGCAGTGGCGGACGAGGCGGTGGCGCGCGATGTGCAGCGGTTGCTAGTGCAGTT
CCAGGATGAGGGCGGGCAGCTGCTGGGTTCCCCGTTTCGACGTGCCCCGTGGACATCACCCCGGACAGGCTGCAGCT
CGTGTGCAACGCGCTACTGGCCCAGGAGGATCCCCTGCCACTGGCCTTTCTTTGTCCACGATGCTGAGATCGTCTC
CTCACTGGGGAAAGACGTTGGAGTCCCAGGCAGTGGAGACAGAGAAGGTCTTAGACATCATCTACCAGCCACAGGC
TATCTTCAGAGTCCGGGCTGTGACTCGCTGCACCAGCTCCTTGGAGGGTTCACAGTGAGGCAGTCATTTCTGTGGC
CTTCAGCCCTACGGGAAAGTACCTGGCCAGTGGCTCTGGAGACACCACCGTGCCTTCTGGGATCTCAGCACAGA
GACACCACATTTACATGCAAGGGACACAGACACTGGGTCTTAGTATATCCTGGTCTCCAGATGGCAAGAAGCT
GGCCTCAGGCTGCAAGAATGGCCAGATTCTCCTCTGGGACCCAAGCACAGGGAAGCAGGTGGGCAGGACCCCTCGC
TGGCCACAGCAAGTGGATCACAGGCCTGAGCTGGGAGCCCCCTCATGCGAACCCTGAGTGCCGCTATGTGGCCAG
CAGCTCCAAGGATGGCAGTGTGCGGATCTGGGACACAACCTGCAGGCCGCTGTGAGCGCATCTCACCAGGGCACAC
CCAGTCGGTACCTGTCTCCGGTGGGGAGGGGACGGGCTTCTCTACTCTGCCTCCCAGGACCGCACCATCAAAGT
CTGGAGAGCTCATGACGGTGTGCTGTGCCGACTCTGCAAGGCCACGGCCACTGGGTGAACACCATGGCCCTCAG
CACTGACTATGCCCTGCGCACTGGGGCCTTTGAACCTGCTGAGGCCTCAGTTAATCCCCAAGACCTCCAAGGATC
CTTGACAGGAGTTGAAGGAGAGGGCTCTGAGCCGATAACAACCTCGTGCGGGGCCAGGGTCCAGAGAGGCTGGTGT
TGGCTCCGACGACTTCACCTTATTCTGTGGTCCCCAGCAGAGGACAAAAAGCCTCTCACTCGGATGACAGGACA
CCAAGCTCTCATCAACCAGGTGCTCTTCTCTCCTGACTCCCGCATCGTGGCTAGTGCCTCCTTTGACAAGTCCAT
CAAGCTGTGGGATGGCAGGACGGGCAAGTACCTGGCTTCCCTACGCGGCCACGTGGCTGCCGTGTACCAGATTGC
GTGGTCAGCTGACAGTGGGCTCCTGGTCAGCGGCAGCAGTGACAGCACACTGAAGGTGTGGGATGTGAAGGCCCA
GAAGCTGGCCATGGACCTGCCCCGGCCACGCGGATGAGGTATATGCTGTTGACTGGAGTCCAGATGGCCAGAGAGT
GGCAAGTGGTGGGAAGGACAAATGCCTCCGATATGGAGGAGATGAGACGGCCCCGAAGTTCTCTCTGACCCCCAC
CTCGACTCGGCCTCTGCCAGCTGCCTTCCCTGCCAGAGAAACAAAGGCTGAGATGGCAGTGCACACACCCTCCCCA
CCAGTGGGGACCTGAGAATGCGTGTGGCCTGCTGTCTCGATAGACCGGAATGGGGTTTTCCACAGATCCCCGC
CTGTGGCACACCCCAGAGCCAGAAATCGAAGGTACAGGAAGTTGTCACTGAACTTGGCCCGTGTCTGCTACTCT
GTACCTTGCTGGTACAGACAGGGGTGGTGGGCAGCCAGGCTCTATGAGTGGGCCCCCTAGTGTGAGCTCTGTACAG
GGTCAGATCCCAGGTTCTATGACCAAATAAGTAACTTAAAGTTTTGTGTGTTGGGTTCTAATTCTTGTCTTAGAA
TCCCCATGACTCAATCAAGGACTGTGCTAAATGAGATTGTCCAGCCCCCGCCCTTGCACTGGACTACGCCAAAAC
CACACTGACCAGGCACTTGCTTCCCTCTCTTCCCCCGTGTGGTAAGAGAGAGGGCCAGTTGTGATAGTGGCCAA
GGAGAATCTAGGGCTGTATTGTTGTCCACTGCAGTAGGCACCGGCCACATGTGACTGCTGGCATGAAATAGAAGT
GCAGTTCCTCCATCGCACTGGGTAAGGCCTCCAGTATTGGACAGCACACAGAAAGGTTTTATCATCAAGAGAGT
TCTGCTGGTCAGCCCTGCTCCAGGGGATGCCTCTGCCTTCGCATAGCACACTGCTTGAGGCCCTGCCAGGCACCA
AGCACTGCCCTGGGCCCCATGGGATAGAGCGGGGAAGGTGATGGCTCTTCCAGAGGATTCCCTCAGATGGGGAGGC
AGCAGTATGAGCTCTGAGCAGAAGTGGGTATTGTTGATACAGAGGAAGTTCTTTGCCACGAGAACTTTCAAGCAG
TGAAAGGAATTCCCATCAGGACTCAGACCCCAGGCCGAGATCTTGCCCTGAATGTACCCTGCCTCTGCTTTCTCC
TGCATCCCATGCTAAGCAGGGTCTGCTGTAAGTACTCAGATTGGATTCCAAACCATCCTTGTATAAACTGCT
CAGAACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4793

MAAAVADEAVARDVQRLLVQFQDEGGQLLGSPFDVPVDITPDRLQLVCNALLAQEDPLPLAFFVHDAEIVSSLGK
TLESQAVETEKVLDIIYQPQAIFRVRAVTRCTSSLEGHSEAVISVAFSPTGKYLASGSGDITVRFWDLSTETPHF
TCKGHRHWVLSISWSPDGKKLASGCKNGQILLWDPSTGKQVGRTLAGHRSKWITGLSWEPLHANPECRYVASSSKD
GSVRIWDTTAGRCERILTGHTQSVTCLRWGGDGLLYSASQDRTIKVWRAHDGVLCTRLQGHGHVNTMALSTDYA
LRTGAFEPAEASVNPQDLQGSLLQELKERALSRYNLVRGQGERLVSGSDDFTLFLWSPAEDKKPLTRMTGHQALI
NQVLFSPDSRIVASASFDSIKLWDGRTGKYLASLRGHVAAVYQIAWSADSRLLVSGSSDSTLKVWDVKAQKLAM
DLPGHADDEVYAVDWSPDGQRVASGGKDKCLRIWRR

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FIGURE 4794A

GTGCAGTGGCACGATCTTGGTTCACCACAATCTCGTCTCGAAGGCTCAGGTGATTCTCTCACCTCAGCCGCCTGA
GTAGCTGGGACCACAGTTTCAGCTGTGAGTTCAACATGGAGGCAAATCAGTGCCCCCTGGTTGTGGAACCATCTT
ACCCAGACCTGGTCATCAATGTAGGAGAAGTGACTCTTGGAGAAGAAAACAGAAAAAGCTGCAGAAAATTTCAGA
GAGACCAAGAGAAGGAGAGAGTTATGCGGGCTGCATGTGCTTTATTAACTCAGGAGGAGGAGTGATTGCAATGG
CCAAGAAGGTTGAGCATCCCCTGGAGATGGGACTGGATTTAGAACAGTCTTTGAGAGAGCTTATTTCAGTCTTCAG
ATCTGCAGGCTTTCTTTGAGACCAAGCAACAAGGAAGGTGTTTTTACATTTTTTGTAAATCTTGGAGCAGTGGCC
CTTTCCCTGAAGATCGCTCTGTCAAGCCCCGCCTTTGCAGCCTCAGTTCTTCATTATACCGTAGATCTGAGACCT
CTGTGCGTTCCATGGACTCAAGAGAGGCATTCTGTTTCTGAAGACCAAAGGAAGCCAAAAATCTTGGGAAGAAG
GACCTTTTCAAAAATTCACAAGGGTGATACCAAGAGCTCCCTAACTCGGATCCTGCTGACCCAACTCGGATC
CTGCTGACCTAATTTTCAAAAAGACTATCTTGAATATGGTGAAATCCTGCCTTTTCTGAGTCTCAGTTAGTAG
AGTTTAAACAGTTCTCTACAAAACACTTCCAAGAATATGTAAAAGGACAATTCCAGAATACGTCCCTGCATTTG
CAAACACTGGAGGAGGCTATCTTTTATTGGAGTGGATGATAAGAGTAGGGAAGTCTGGGATGTGCAAAAGAAA
ATGTTGACCCTGACTCTTTGAGAAGGAAAATAGAACAAGCCATATACAACTACCTTGTGTTTCAATTTTGCCAAC
CCCAACGCCCCGATAACCTTCACACTCAAAATGTGAATGTGTTAAAAAGGGGAGAGCTCTATGGCTATGCTTGCA
TGATCAGAGTAAATCCCTTCTGCTGTGCAGTGTCTCAGAAGCTCCCAATTCATGGATAGTGGAGGACAAGTACG
TCTGCAGCCTGACAACCGAGAAATGGGTAGGCATGATGACAGACACAGATCCAGATCTTCTACAGTTGTCTGAAG
ATTTTGAATGTGAGCTGAGTCTATCTAGTGGGCCTCCCTTAGCAGACCAGTGTACTCCAAGAAAGGCCTGGAAC
ATAAAAAGGAACTCCAGCAACTTTTATTTTTCAGTCCCACCAGGATATTTGCGATATACTCCAGAGTCACTCTGGA
GGGACCTGATCTCAGAGCACAGAGGACTAGAGGAGTTAATAAATAAGCAAATGCAACCTTTCTTTCCGGGAATTT
TGATCTTCTCTAGAAGTTGGGCTGTGGACCTGAACTTGCAAGGAGAAGCCAGGAGTCATCTGTGATGCTCTGCTGA
TAGCACAGAACAGCACCCCCATTCTCTACACCATTCTCAGGGAGCAAGATGCAGAGGGCCAGGACTACTGCACTC
GCACCGCCTTTACTTTGAAGCAGAAGCTAGTGAACATGGGGGGCTACACCGGGAAGGTGTGTGTGAGGGCCAAGG
TCCTCTGCCTGAGTCTGAGAGCAGCGCAGAGGCCTTGGAGGCTGCAGTGTCTCCGATGGATTACCCTGCGTCTCT
ATAGCCTTGCAAGCACCCAGCACATGGAAGCCCTGCTGCAGTCCCTCGTGATTGTCTTACTCGGCTTCAGGTCTC
TCTTGAGTGACCAGCTCGGCTGTGAGGTTTTTAAATCTGCTCACAGCCCAGCAGTATGAGATATTCTCCAGAAGCC
TCCGCAAGAACAGAGAGTTGTTTGTCCACGGCTTACCTGGCTCAGGGAAGACCATCATGGCCATGAAGATCATGG
AGAAGATCAGGAATGTGTTTCACTGTGAGGCACACAGAATTCTCTACGTTTGTGAAAACCAGCCTCTGAGGAACT
TTATCAGTGATAGAAATATCTGCCGAGCAGAGACCCGAAAACTTTCCCTAAGAGAAAACTTTGAACACATTCAAC
ACATCGTCATTGACGAAGCTCAGAATTTCCGTACTGAAGATGGGGACTGGTATGGGAAGGCAAAAAGCATCACTC
GGAGAGCAAAGGGTGGCCCAGGAATTCTCTGGATCTTTCTGGATTACTTTTCAGACCAGCCACTTGGATTGCAGTG
GCCTCCCTCCTCTCTCAGACCAATATCCAAGAGAAGAGCTCACCAGAATAGTTTCGCAATGCAGATCCAATAGCCA
AGTACTTACAAAAGAAATGCAAGTAATTAGAAGTAATCCTTCATTTAACATCCCCACTGGGTGCCTCGAGGTAT
TTCTTGAAGCCGAATGGTCCCAGGGTGTTCAGGGAACCTTACGAATTAAGAAATACTTGACTGTGGAGCAAATAA
TGACCTGTGTGGCAGACACGTGCAGGCGCTTCTTTGATAGGGGCTATTCTCCAAAGGATGTTGCTGTGCTTGTCA
GCACCGCAAAAGAAGTGGAGCACTATAAGTATGAGCTCTTGAAAGCAATGAGGAAGAAAAGGGTGGTGCAGCTCA
GTGATGCATGTGATATGTTGGGTGATCACATTGTGTTGGACAGTGTTCCGGCGATTCTCAGGCCTGGAAAGGAGCA
TAGTGTGTTGGGATCCATCCAAGGACAGCTGACCCAGCTATCTTACCCAATGTTCTGATCTGTCTGGCTTCCAGGG
CAAAACAACACCTGTATATTTTTCCGTGGGGTGGCCATTAGGAAGAACTCCAAATCAAAATGCTATGTAAATGTC
TATGGGTGACAGTCTGCTGATGGTAGAAACCTTTCTTTTTAGTTTCAAGTCAAGATTGAGAGATTGGACGGAGCTGACAC
AAAGAGTTTGGAGCTCCCCATTTCTGGCTCTCCTTTTCAGGGGTTCCCTCCCCAACCTTTTCAGCAGCGGTGGCT
GCCCCCATTTCTGACCCCTGACTCTTCCAGCCAGAAAGATGGTGGTTTTCTAAAGGAACCTTTAGCTGTCTGTCAC
AATGCCGATCTGTGCTTGCATTTTGGGTAAAAGCCATAAAAAATAAGAACTCAGCCTGTGGCCTTTCTTTCTTC
CAAGGCTGGGCTTCTTTTTTTAAGTGACTTCATGCAGTTTGTGCTTTTAAAAATTTGTCCAGAATCGTTTTCTG
CAGAAGCATGGTCTGTTAGGAGCTTACTGGCCGTAGCAGAAGCAATTGTTTCTGAATTCTTGACATTTATCTTT
GCTGTATTCATTTAGGGCTTGGGAGAGTCCGAAGATAATTCAGTCACTGTGAGATTAATAATTTTGTGAGGACAA
AGAATACCGTTATGATTATTTAATCCTTTAAATTTGTGGTCTCCAGAGCTTGTCTCAGAATGGCCAGACCAAG
CCTTAATTGTGATAGTGAATATTAATGGTCACTTTAAGGAGAAATTATAGGCCAAGATGAAATGAACATAAACCT
GTTTGCCCTGGCTTTTCAGTGGAAGATGATATTAGAGACCAAAATCTGGTTCTGAAGGTGTGTATCAGCCCTAAGG

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FIGURE 4794B

TGAACCAGACTTGGGAAAGATTGTCTTTAAAAATCAATGAGTTTATGTTTTAACTTCTCAGCTTAGTTCTATGCA
TTGCTCTATAACACACCTAGTTAAGTTTTATGTTATTCTTGAACTGTGATTTTTTTTCTATTTACTTTTCATGGTT
TGGTGGGCCATTGTTATGGACTGAATGTTTGTGTCCCACCTTCACCCCCAAATTCCTGTTGAAGCCCCAACCC
TGCACTGTGGAGCTGGGGCTGCTAAGGAAGTAATTAAGGTTACATGAAGTCATGGTGGGGCTCTGATCTGCTAAG
GTTGGTGTCTTATAGGGAGAGACCCAGAGAGCTTGTTCCCTCCCTCCCTGTGCATGCAAACAAGAGGGCATGG
GAGCACACAGAGAGATGGCAGCCACCTACAAGCCAAGAGGAGAAGCCTCACAATCAAACCTCTCGCTGCTGGCGAG
AGTCTTGGACTCTGTCTTGGACTTCCAGCCTCCAGACTGTGAGAAACAAATTTCTGTTGTTTCAGCTTCTCAGTC
TCTGGTGTGTTTTGTTATTGCAGCCTGAGAACACAGCTGTACGATTATTTGTCAAACAGAAAACACTGATACTTAAC
AATGCTAATGCAATTATTTATTTGCTTTTCAGTCTCTACAAAACGTTCTAAAACACTAATCTAAATATTAACAGT
AAAATATTTGCATAACTAATGGAACTAAGAAATCATATGACCAATATTTCACTTATTGGTAATCTTACTCTACT
GATTTCCCCCAGACTGTGATTTTTGAACTTCCTTGCCCTTCTCCTGTCTTTCTGTGTTTATTCATGGAATTCCA
GTTATCTGGGCTTGAAATTGCAGGCTCTCCTAACTTAAGCAAAATCTGACAGATCAGCAAAATGAGATAAATGTT
TCTTTTTTCTTTCTGACTGCATTAAATCAGATACAACCTCAGCATTAAAAAGCTATCTTTGTAAATGTTGTTACTA
ATAAATTAGTCTTATAAGATCCCTGGACTTTGGAGTTGTTGCAATGTCTTTGAGAGTAATCTTTAAAAGTCTAA
TTTCGACTGGTTGTATCTCTTTATGATTTATTGCCCCACTAACAATATTTGAAACAATATAATATTTTAAAATGT
ATAAATAATTATGAATTTTTGTTTAGAACAAAGAGGATTACTGATATTTGTTTCCCTATGAATGGCAAAGGTTT
AGCTTACTACTGCATTTCTGTTTTAAATAAAAAGTTGAGAGTTTGTGTCTCATTAAACTG

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FIGURE 4795

MEANQCPLVVEPSYPDLVINVGCVTLGGEENRKKLQKIQRDQEKERVMAACALLNSGGGVIRMAKKVEHPVEMGL
DLEQSLRELIQSSDLQAFFETKQOGRCFYIFVKSWSSGPFPEDRSVKPRCLSLSSSLYRRSETSVRSMDSREAF
FLKTKRKP KILEEGPFHKIHKGVYQELPNSDPADPNSDPADLIFQKDYLEYGEILPFPESQLVEFKQFSTKH
YVKRTIPEYVPAFANTGGGYLFIGVDDKSREVLGCACENVDPSLRKIEQAIYKLPVHFCQPQRPITFTLKIV
NVLKRGELYGYACMIRVNPFCFAVFSEAPNSWIVEDKYVCSLTTEKWWGMMTDTPDLLQLSEDFECQLSLSSGP
PLSRPVYSKKGLEHKKELQQLLFSVPPGYLRYTPESLWRDLISEHRGLEELINKMQPFFRGILIFSRSWAVDLN
LQEKPGVICDALLIAQNSTPILYTILREQDAEGQDYCTRATLTKQKLVNMGYTGKVCVRAKVLCLSPSSAEA
LEAAVSPMDYPASYSLAGTQHMEALLQSLVIVLLGFRSLSDQLGCEVLNLLTAQQYEIFSRSLRKNRELFVHGL
PGSGKTIMAMKIMEKIRNVFHCEAHRILYVCENQPLRNFISDRNICRAETRKTFLRENFEHIQHIVIDEAQNFRT
EDGDWYGKAKSITRAKGGPGILWIFLDYFQTSHLDCSGLPPLSDQYPREELTRIVRNADPIAKYLQKEMQVIRS
NPSFNIPITGCLEVFPEAEWSQGVQGTLRICKYLTVEQIMTCVADTCRRFFDRGYSPKDVAVLVSTAKEVEHYKYE
LLKAMRKKRVVQLSDACDMLGDHIVLDSVRRFSGLERSIVFGIHPRTADPAILPNVLICLASRAKQHLYIFPWGG
H

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FIGURE 4796A

AATTCTCGAGCTCGTTCGACCGGTTCGACGAGCTCGAGGGTTCGACGAGCTCGAGGGCGCGCGCCCGGCCCCACCCC
TCGCAGCACCCCGCGCCCCGCGCCCTCCCAGCCGGGTTCAGCCGGAGCCATGGGGCCGGAGCCGAGTGAGCACC
ATGGAGCTGGCGGCCTTGTGCCGCTGGGGGCTCCTCCTCGCCCTCTTGCCCCCGGAGCCGCGAGCACCCAAGTG
TGCACCGGCACAGACATGAAGCTGCGGCTCCCTGCCAGTCCCAGACCCACCTGGACATGCTCCGCCACCTCTAC
CAGGGCTGCCAGGTGGTGCAGGGAAACCTGGAACCTACCTACCTGCCCACCAATGCCAGCCTGTCTTCTCCTGCAG
GATATCCAGGAGGTGCAGGGCTACGTGCTCATCGCTCACAACCAAGTGAGGCAGGTCCCAGTGCAGAGGTGCGG
ATTGTGCGAGGCGACCCAGCTCTTTGAGGACAACCTATGCCCTGGCCGTGCTAGACAATGGAGACCCGCTGAACAAT
ACCACCCCTGTTCAGAGGGGCTCCCCAGGAGGCTGCGGGAGCTGCAGCTTCGAAGCCTCACAGAGATCTTGAAA
GGAGGGGTCTTGATCCAGCGGAACCCCAAGCTCTGCTACCAGGACACGATTTTGTGGAAGGACATCTTCCACAAG
AACAAACAGCTGGCTCTCACACTGATAGACACCAACCGCTCTCGGGCTGCCACCCCTGTTCTCCGATGTGTAAG
GGCTCCCGCTGCTGGGGAGAGAGTTCTGAGGATTGTGAGAGCCTGACGCGCACTGTCTGTGCCGGTGGCTGTGCC
CGCTGCAAGGGGCCACTGCCCAGTACTGCTGCCATGAGCAGTGTGCTGCCGGCTGCACGGGGCCCAAGCACTCT
GACTGCCTGGCCTGCCTCCACTTCAACCACAGTGGCATCTGTGAGCTGCACTGCCAGCCCTGGTACCTACAAC
ACAGACACGTTTGTAGTCCATGCCCAATCCCAGGGGCCGGTATACATTGGCGGCCAGCTGTGTGACTGCCTGTCCC
TACAACTACCTTTCTACGGACGTGGGATCCTGCACCCTCGTCTGCCCCCTGCACAACCAAGAGGTGACAGCAGAG
GATGGAACACAGCGGTGTGAGAAGTGCAGCAAGCCCTGTGCCCGAGTGTGCTATGGTCTGGGCATGGAGCACTTG
CGAGAGGTGAGGGCAGTTACCAAGTGCCAATATCCAGGAGTTTGTGCTGCAAGAAGATCTTTGGGAGCCTGGCA
TTTCTGCCGGAGAGCTTTGATGGGGACCCAGCCTCCAACACTGCCCCGCTCCAGCCAGAGCAGCTCCAAGTGTTC
GAGACTCTGGAAGAGATCACAGGTTACCTATACATCTCAGCATGGCCGGACAGCCTGCCTGACCTCAGCGTCTTC
CAGAACCTGCAAGTAATCCGGGGACGAATTCTGCACAATGGCGCCTACTCGCTGACCCTGCAAGGGCTGGGCATC
AGCTGGCTGGGGCTGCGCTCACTGAGGGAACCTGGGCAGTGGACTGGCCCTCATCCACCATAACACCCACCTCTGC
TTCGTGCACACGGTGCCCTGGGACCAGCTCTTTCGGAACCCGCACCAAGCTCTGCTCCACACTGCCAACCGGCCA
GAGGACGAGTGTGTGGGCGAGGGCCTGGCCTGCCACCAGCTGTGCGCCCGAGGGCACTGCTGGGGTCCAGGGCCC
ACCCAGTGTGTCAACTGCAGCCAGTTCCTTCGGGGCCAGGAGTGCCTGGAGGAATGCCGAGTACTGCAGGGGCTC
CCCAGGGAGTATGTGAATGCCAGGCAGTGTTCGCGTGCCACCCTGAGTGTGAGCCCCAGAAATGGCTCAGTGACC
TGTTTTGGACCGGAGGCTGACCAGTGTGTGGCCTGTGCCACTATAAGGACCCCTCCCTTCTGCGTGGCCCGCTGC
CCCAGCGGTGTGAAACCTGACCTCTCCTACATGCCCATCTGGAAGTTTCCAGATGAGGAGGGCGCATGCCAGCCT
TGCCCCATCAACTGCACCCACTCCTGTGTGGACCTGGATGACAAGGGCTGCCCCGCCGAGCAGAGAGCCAGCCCT
CTGACGTCCATCGTCTCTGCGGTGGTTGGCATTCTGCTGGTCTGCTGCTTTGGGGTGGTCTTTGGGATCCTCATC
AAGCGACGGCAGCAGAAGATCCGGAAGTACAGATGCGGAGACTGCTGCAGGAAACGGAGCTGGTGGAGCCGCTG
ACACCTAGCGGAGCGATGCCCAACCAGGCGCAGATGCGGATCCTGAAAGAGACGGAGCTGAGGAAGGTGAAGGTG
CTTGGATCTGGCGCTTTTGGCACAGTCTACAAGGGCATCTGGATCCCTGATGGGGAGAATGTGAAAATTCCAGTG
GCCATCAAAGTGTGAGGGAAAACACATCCCCAAAGCCAAACAAAGAAATCTTAGACGAAGCATACGTGATGGCT
GGTGTGGGCTCCCCATATGTCTCCCGCCTTCTGGGCATCTGCCTGACATCCACGGTGCAGCTGGTGACACAGCTT
ATGCCCTATGGCTGCCTCTTAGACCATGTCCGGGAAAACCGCGGACGCCTGGGCTCCCAGGACCTGCTGAACTGG
TGTATGCAGATTGCCAAGGGGATGAGCTACCTGGAGGATGTGCGGCTCGTACACAGGGACTTGGCCGCTCGGAAC
GTGCTGGTCAAGAGTCCCAACCATGTCAAATTACAGACTTCGGGCTGGCTCGGCTGCTGGACATTGACGAGACA
GAGTACCATGCAGATGGGGGCAAGGTGCCCATCAAGTGGATGGCGCTGGAGTCCATTCTCCGCCGGCGGTTTACC
CACCAGAGTGATGTGTGGAGTTATGGTGTGACTGTGTGGGAGCTGATGACTTTTGGGGCCAAACCTTACGATGGG
ATCCCAGCCCGGAGATCCCTGACCTGCTGGAAAAGGGGGAGCGGCTGCCCCAGCCCCCATCTGCACCATTGAT
GTCTACATGATCATGGTCAAATGTTGGATGATTGACTCTGAATGTGCGCCAAGATTCCGGGAGTTGGTGTCTGAA
TTCTCCCGCATGGCCAGGGACCCCCAGCGCTTTGTGGTCTATCCAGAATGAGGACTTGGGCCAGCCAGTCCCTTG
GACAGCACCTTCTACCGCTCACTGCTGGAGGACGATGACATGGGGGACCTGGTGGATGCTGAGGAGTATCTGGTA
CCCCAGCAGGGCTTCTTCTGTCCAGACCTGCCCGGGCGCTGGGGGCATGGTCCACCACAGGCACCGCAGCTCA
TCTACCAGGAGTGGCGGTGGGGACCTGACACTAGGGCTGGAGCCCTCTGAAGAGGAGGCCCCCAGGTCTCCACTG
GCACCCTCCGAAGGGGCTGGCTCCGATGTATTTGATGGTGACCTGGGAATGGGGGCAGCCAAGGGGCTGCAAGC
CTCCCCACACATGACCCAGCCCTCTACAGCGGTACAGTGAGGACCCACAGTACCCCTGCCCTCTGAGACTGAT
GGCTACGTTGCCCCCTGACCTGCAGCCCCCAGCCTGAATATGTGAACCAGCCAGATGTTGCGCCCCAGCCCCCT

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FIGURE 4796B

TCGCCCCGAGAGGGCCCTCTGCCTGCTGCCCCGACCTGCTGGTGCCACTCTGGAAAGGGCCAAGACTCTCTCCCCA
GGGAAGAATGGGGTCGTCAAAGACGTTTTTGCCTTTGGGGGTGCCGTGGAGAACCCCGAGTACTTGACACCCACAG
GGAGGAGCTGCCCCCTCAGCCCCACCCTCCTCCTGCCTTCAGCCCAGCCTTCGACAACCTCTATTACTGGGACCAG
GACCCACCAGAGCGGGGGGCTCCACCCAGCACCTTCAAAGGGACACCTACGGCAGAGAACCCAGAGTACCTGGGT
CTGGACGTGCCAGTGTGAACCAGAAGGCCAAGTCCGCAGAAGCCCTGATGTGTCCTCAGGGAGCAGGGAAGGCCT
GACTTCTGCTGGCATCAAGAGGTGGGAGGGCCCTCCGACCACTTCCAGGGGAACCTGCCATGCCAGGAACCTGTC
CTAAGGAACCTTCCTTCCTGCTTGAGTTCCAGATGGCTGGAAGGGGTCCAGCCTCGTTGGAAGAGGAACAGCAC
TGGGGAGTCTTTGTGGATTCTGAGGCCCTGCCAATGAGACTCTAGGGTCCAGTGGATGCCACAGCCCAGCTTGG
CCCTTTCCTTCCAGATCCTGGGTACTGAAAGCCTTAGGGAAGCTGGCCTGAGAGGGGAAGCGGCCCTAAGGGAGT
GTCTAAGAACAAAAGCGACCCATTGAGAGACTGTCCCTGAAACCTAGTACTGCCCCCATGAGGAAGGAACAGCA
ATGGTGTGAGTATCCAGGCTTTGTACAGAGTGCTTTTCTGTTTAGTTTTTACTTTTTTTGTTTTGTTTTTTTAAA
GACGAAATAAAGACCCAGGGGAGAATGGGTGTTGTATGGGAGGCAAGTGTGGGGGGTCTTCTCCACACCCACT
TTGTCCATTTGCAAATATATTTTGGAAAAC

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FIGURE 4797

MELAALCRWGLLLALLPPGAASTQVCTGTDMKLRLPASPETHLDMLRHLYQGCQVVQGNLELTYLPTNASLSFLO
DIQEVQGYVLIAHNQVRQVPLQRLRIVRGTQLFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQLRSLTEILK
GGVLIQRNPQLCYQDITILWKDIFHKNNQLALTIDTNRSRACHPCSPMCKGSRGWGESSEDCQSLTRTVCAAGCA
RCKGPLPTDCCHEQCAAGCTGPKHSDCLACLHFNHSGICELHCPALVTYNTDTFESMPNPEGRTYFGASCVTACP
YNYLSTDVGSCITLVCPLHNQEVTAEDGTQRCCKSKPCARVCYGLGMEHLREVRAVITSANIQEFAGCKKIFGSLA
FLPESFDGDPASNTAPLQPEQLQVFETLEEITGYLYISAWPDSLPLDSVFNQVIRGRILHNGAYSLTLQGLGI
SWLGLRSLRELGSGLALIHNNHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVEGLACHQLCARGHCWGPGP
TQCVNCSQFLRGQECVEECRVLQGLPREYVNARHCLPCHPECQPQNGSVTCFGPEADQCVACAHYKDPFFCVARC
PSGVKPDLSYMPIWKFPDEEGACQPCPINCTHSCVDLDDKGCPAEQRASPLTSIVSAVVGILLVVVLGVVFGILI
KRRQQKIRKYTMRRLLQETELVEPLTPSGAMPNQAQMRILKETELRKVKVLGSGAFGTVYKGIWIPDGENVKIPV
AIKVLRENTSPKANKEILDEAYVMAGVGSPYVSRLLGICLTSTVQLVTQLMPYGCLLDHVRENRRGLGSQDLLNW
CMQIAKGMSYLEDVRLVHRDLAARNVLVKSPNHVKITDFGLARLLDIDETEHADGGKVPKWKMALESILRRRFT
HQSDVWSYGVTVWELMTFGAKPYDGIPAREIPDLLEKGERLPQPPICTIDVYMIMVKCWMIDSECRPRFRELVE
FSRMARDPQRFVVIQNEDLGPASPLDSTFYRSLLEDDDMGDLVDAEEYLVPQQGFFCPDPAPGAGGMVHHRHRS
STRSGGDLTLGLEPSEEEAPRSPLAPSEGAGSDVFDGDLGMGAAGLQSLPTHDPSPLOQRYSEDPTVPLPSETD
GYVAPLTCSPQPEYVNQPDVRPQPPSPREGPLPAARPAGATLERAKTLSPGKNGVVKDVFAFGGAVENPEYLTPO
GGAAPQPHPPAFSPAFDNLYYWDQDPPERGAPPSTFKGTPTAENPEYLGLDVPV

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FIGURE 4798

CTTTCCTTTTCGCTGCTGCGGCCGCAGCCATGAGTATGCTCAGGCTTCAGAAGAGGCTCGCCTCTAGTGTCTCCG
CTGTGGCAAGAAGAAGGTCTGGTTAGACCCCAATGAGACCAATGAAATCGCCAATGCCAACTCCCGTCAGCAGAT
CCGGAAGCTCATCAAAGATGGGCTGATCATCCGCAAGCCTGTGACGGTCCATTCCCGGGCTCGATGCCGGAAAAA
CACCTTGGCCCGCCGGAAGGGCAGGCACATGGGCATAGGTAAGCGGAAGGGTACAGCCAATGCCCGAATGCCAGA
GAAGGTCACATGGATGAGGAGAATGAGGATTTTTCGCGCCGGCTGCTCAGAAGATAACCGTGAATCTAAGAAGATCGA
TCGCCACATGTATCACAGCCTGTACCTGAAGGTGAAGGGGAATGTGTTCAAAAACAAGCGGATTCTCATGGAACA
CATCCACAAGCTGAAGGCAGACAAGGCCCCGCAAGAAGCTCCTGGCTGACCAGGCTGAGGCCCCGAGGTCTAAGAC
CAAGGAAGCACGCAAGCGCCGTGAAGAGCGCCTCCAGGCCAAGAAGGAGGAGATCATCAAGACTTTATCCAAGGA
GGAAGAGACCAAGAAATTAAAACCTCCCACTTTGTCTGTACATACTGGCCTCTGTGATTACATAGATCAGCCATTA
AAATAAAACAAGCCTTAATCTGC

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FIGURE 4799

MSMLRLQKRLASSVLRCGKKKVWLDPNETNEIANANSRQQIRKLIKDGLIIRKPVTVHSRARCRCRKNLARRKGRH
MGIGKRKGTANARMPEKVTWMRRMRILRRLRLRYRESKKIDRHHYHSLYLKVKGNVFKNKRILMEHIHKLKADKA
RKKLLADQAEARRSKTKEARKRREERLQAKKEEIIKTLSKEEETKK

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FIGURE 4800A

AGCTCCAGCCGCCGTCGCTGCTGCCTGTGTAGTTGCAGCCGCGGCGCCTCCCGCCAGCTCGCCTCGGGGAACAG
GACGCGCGTGAGCTCCAGGGCXTCCCCGCCCCAGCTTTTCTCGGAACCATGAACCCCAACTGCGCCCGGTGCGGC
AAGATCGTGTATCCACGGAGAAGGTGAAGTGTCTGGATAAGTTCTGGCATAAAGCATGCTTCCATTGCGAGACC
TGCAAGATGACACTGAACATGAAGAACTACAAGGGCTACGAGAAGAAGCCCTACTGCAACGCACACTACCCCAAG
CAGTCCTTCACCATGGTGGCGGACACCCCGGAAAACCTTCGCCTCAAGCAACAGAGTGAGCTCCAGAGTCAGGTG
CGCTACAAGGAGGAGTTTGAGAAGAACAAGGGCAAAGGTTTCAGCGTAGTGCCAGACACGCCCCGAGCTCCAGAGA
ATCAAGAAGACCCAGGACCAGATCAGTAACATAAAATACCATGAGGAGTTTGAGAAGAGCCGCATGGGGCCCTAGC
GGGGGCGAGGGCATGGAGCCAGAGCGTCGGGATTACAGGACGGCAGCAGCTACCGGCGGCCCCCTGGAGCAGCAG
CAGCCTCACCACATCCCGACCAAGTGCCTCCGTTTACCAGCAGCCCCAGCAGCAGCCGGTGGCCCCAGTCCTATGGT
GGCTACAAGGAGCCTGCAGCCCCAGTCTCCATACAGCGCAGCGCCCCATCTGTCTTCAGCACATTCCACGGCAT
CGCATCCGTCCTGGGCGTGACCCGTCCATTCTTCAGTGTCTCTGTTTTTAAACCTGCGACAGCTTGTGATTCC
TACCCCTCTTCCAGCTTCTTTTGCCAACTGAAGCCTTCTTCTGCCACTTCTGCGGGCTCCCTCTCTGGCAGGCT
TCCCCCTTGATCGACTTCTTTGGTTTTCTCTCGGATGGAACGGGCATGGGCCTCTCTGGGGGAGGCAGGGCTGGA
ATGGGAGACCTGTTGGCCTGTGGGCCTCACCTGCCCCCTGTCTCTCTCCCTCACATCCTCTGCCCAGCTCCTC
ACATACCCACACATTCCAGGGCTGGGGTGAGCCTGACTGCCAGGACCCAGGTACAGGGCTCCCTACATTCCCCA
GAGTGGGATCCACTTCTTGGTTCTTGGGATGGCGATGGGGACTCTGCCGCTGTGTAGGGACCAGTGGGATGGGCT
CTACCTCTCTTTCTCAAAGAGGGGGCTCTGCCACCTGGGGTCTCTCTCCCTACCTCCCTCCTCAGGGGCAACAA
CAGGAGAATGGGGTTCTGTGTGGGGCGAATTCATCCCTCCCCGCGCTTCCTTCGCACACTGTGATTTTGCC
CTCCTGCCCACGCAGACCTGCAGCGGGCAAAGAGCTCCCGAGGAAGCACAGCTTGGGTACAGTTCTTGCCCTTCT
TAATTTTAGGGACAGCTACCGGAAGGAGGGGAACAAGGAGTTCTCTTCCGACGCCCTTTCCCCACGCCACCCC
CAGTCTCCAGGGACCCTTGCCCTGCCTCCTAGGCTGGAAGCCATGGTCCCGAAGTGTAGGGCAAGGGTGCCCTCAGG
ACCTTTTGGTCTTCAGCCTCCCTCAGCCCCCAGGATCTGGGTAGGTGGCCGCTCCTCCCTGCTCCTCATGGGAA
GATGTCTCAGAGCCTTCCATGACCTCCCTCCCCAGCCCAATGCCAAGTGGACTTGAGGCTGCACAAAGTCAGCA
GGGACCACTAAATCTCCAAGACCTGGTGTGCGGAGGCAGGAGCATGTATGTCTGCAGGTGTCTGACACGCAAGTG
TGTGAGTGTGAGTGTGAGAGATGGGGCGGGGGTGTGTCTGTAGGTGTCTCTGGGCCTGTGTGTGGGTGGGGTTAT
GTGAGGGTATGAAGAGCTGTCTTCCCTGAGAGTTTCTCAGAACCACAGTGAGAGGGGAGGGCTCCTGGGGCA
GAGAAGTTCTTAGGTTTTCTTTGGAATGAAATTCCTCCTTCCCCCATCTCTGAGTGGAGGAAGCCACCAATC
TGCCCTTTGCAAGTGTGCAGGGTGAAGGTAAAGAGTTGGTGTGGAGTTGGGGCTGCCATAGGGTCTGCAGCCTGC
TGGGGCTAAGCGGTGGAGGAAGGCTCTGTCACTCCAGGCATATGTTTCCCCATCTCTGTCTGGGGCTACAGAATA
GGGTGGCAGAAGTGTACCCCTGTGGGTGTCTCCCTCGGGGGCTCTTCCCCTAGACCTCCCCCTCACTTACATAAA
GCTCCCTTGAAGCAAGAAAGCTCTCTGCTCATGGGTGGCTGTGACAACCCTGGCCTCACTTGATTATCTCTGGT
TTCTTGCCACCCTCTGGGAGTCCCCATCCCATTTTATCCTGAGCCCAACCAGGCCCTGCCATTGGCCTCTTGT
CCCTTGGCACACTTGTACCCACAGGTGAGGGGCAGGACCTGAAGGTATTGGCCTGTTCAACAATCAGTCATCATG
GGTGTTTTTGTCAACTGCTTGTAAATTGATTGGGGATGTTTGCCCCGAATGAGAGGTTGAGGAAAAGACTGTGG
GTGGGGAGGCCCTGCCTGACCCATCCCTTTTCTTTCTGGCCCCAGCCTAGGTGGAGGCAAGTGGAAATATCTTAT
ATTGGGCGATTTGGGGGCTCGGGGAGGCAGAGAATCTCTGGGAGTCTTGGGTGGCGCTGGTGCACTTCTGTTTCC
TCTTGATCTCAAAGCACAAATGTGGATTGAGGGGACCAAGGTGAGGACACATCCCCCTTAGAGGACCTGAGTTTGG
GAGAGTGGTGAGTGGAAGGGAGGAGCAGCAAGAAGCAGCCTGTTTTCACTCAGCTTAATTCTCCTTCCAGATAA
GGCAAGCCAGTCATGGAATCTTGCTGCAGGCCCTCCCTCTACTCTTCTGTCTTAAATAAGGGGCGTTTTCTT
ACACACCCCCAGAGAGAGGAGGGACTGTCACTTGGTGTGAGTGACCGGGGGCTGCTGGGCGTCTGTTCTTTAC
CAAAACCATCCATCCCTAGAAGAGCACAGAGCCCTGAGGGGCTGGGCTGGGCTGGGCTGAGCCCTGGTCTTCTC
TACAGTTCACAGAGGTCTTTCAGCTCATTTAATCCAGGAAAGAGGCATCAAAGCTAGAATGTGAATATAACTTT
TGTGGACCAATACTAAGAATAACAAGAAGCCAGTGGTGAGGAAAGTGCCTTCTCCAGCACTGCCTCCTGTTTT
CTCCCTCTCATGTCCCTCCAGGGAAAATGACTTTATTGCTTAATTTCTGCCTTTCCCCCTCACACATGCACTTT
TGGGCTTTTTTTATAGCTGGAAAAAACAAAATACCACCCTACAAACCTGTATTTAAAGAAACAGAAATGACC
ACGTGAAATTTGCCTCTGTCCAAACATTTTCATCCGTGTGTATGTGTATGTGTGTGAGTGTGTGAAGCCGCCAGTT
CATCTTTTTATATGGGGTTGTTGTCTCATTTTGGTCTGTTTTGGTCCCTCCCTCGTGGGCTTGTGTCTGGGATC
AAACCTTTCTGGCCTGTTATGATTCTGAACATTTGACTTGAACCACAAGTGAATCTTTCTCCTGGTGACTCAAAT

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FIGURE 4800B

AAAAGTATAATTTTTACCTGC

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FIGURE 4801

CTTTTTCTTTTTCCGGCGTTCAAGATGTCGAAGCGAGGACGTGGTGGGTCCCTCTGGTGCGAAATTCGGGATTT
CCTTGGGTCTTCCGGTAGGAGCTGTAATCAATTGTGCTGACAACACAGGAGCCAAAAACCTGTATATCATCTCCG
TGAAGGGGATCAAGGGACGGCTGAACAGACTTCCCGCTGCTGGTGTGGGTGACATGGTGATGGCCACAGTCAAGA
AAGGCAAACCAGAGCTCAGAAAAAAGGTACATCCAGCAGTGGTCATTTCGACAACGAAAGTCATACCGTAGAAAAG
ATGGCGTGTTTCTTTATTTTGAAGATAATGCAGGAGTCATAGTGAACAATAAAGGCGAGATGAAAGGTTCTGCCA
TTACAGGACCAGTAGCAAAGGAGTGTGCAGACTTGTGGCCCCGATTGCATCCAATGCTGGCAGCATTGCATTGAT
TCTCCAGTATATTTGTAAAAAATAAAAAAAACTAAACCCATT

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FIGURE 4802

MSKRGRGGSSGAKFRISLGLPVGAVINCADNTGAKNLYIISVKGIGRLNRLPAAGVGDMVMATVKKGKPELRKK
VHPAVVIRQRKSYRRKDGFLYFEDNAGVIVNNKGEMKGSAITGPVAKECADLWPRIASNAGSIA

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FIGURE 4803

TGCCAGCGGGGAGGCTGCAGCCGCGGGTTGTTACAGCTGCTGGAGCAGCAGCGGCCCCGCTCCCGGGAACCGTT
CCCGGGCCGTTGATCTTCGGCCCCACACGAACAGCAGAGAGGGGCAGCAGGATGAATGTGGGCACAGCGCACAGC
GAGGTGAACCCCAACACGCGGGTGATGAACAGCCGTGGCATCTGGCTCTCCTACGTGCTGGCCATCGGTCTCCTC
CACATCGTGCTGCTGAGCATCCCGTTTGTGAGTGTCCCTGTCGTCTGGACCTCACCAACCTCATTACAAACATG
GGCATGTATATCTTCCTGCACACGGTGAAGGGGACACCCTTTGAGACCCCGGACCAGGGCAAGGCGAGGCTGCTA
ACCCACTGGGAGCAGATGGATTATGGGGTCCAGTTACGGCCTCTCGGAAGTTCTTGACCATCACACCCATCGTG
CTGTACTTCCTCACCAGCTTCTACACTAAGTACGACCAGATCCATTTTGTGCTCAACACCGTGTCCCTGATGAGC
GTGCTTATCCCAAGCTGCCCCAGCTCCACGGAGTCCGGATTTTGGAAATCAATAAGTACTGAGAGTGCAGCCCC
TTCCCCTGCCCAGGGTGGCAGGGGAGGGGTAGGGTAAAAGGCATGTGCTGCAACACTGAAGACAGAAAGAAGAAG
CCTCTGGACACTGCCAGAGATGGGGTTGAGCCTCTGGCCTAATTTCCCCCTCGCTTCCCCCAGTAGCCAACTT
GGAGTAGCTTGTAGTGGGGTTGGGGTAGGCCCCCTGGGCTCTGACCTTTTCTGAATTTTTTGATCTTTTCCTTTT
GCTTTTTGAATAGAGACTCCATGGAGTTGGTCATGGAATGGGCTGGGCTCCTGGGCTGAACATGGACCACGCAGT
TGCGACAGGAGGCCAGGGGAAAAACCCCTGCTCACTTGTTGCCCTCAGGCAGCCAAAGCACTTTAACCCTGCA
TAGGGAGCAGAGGGCGGTACGGCTTCTGGATTGTTTCACTGTGATTCTAGGTTTTTTCGATGCCACGCAGTGTG
TGCTTTTGTGTATGGAAGCAAGTGTGGGATGGGTCTTTGCCTTTCTGGGTAGGGAGCTGTCTAATCCAAGTCCA
GGCTTTTGGCAGCTTCTCTGCAACCCACCGTGGGTCTGTTGGGAGTGGGAGGGTCAGGTTGGGGAAAGATGG
GGTAGAGTGTAGATGGCTTGTTTCXGAGAGGTGAGGGGGCCAGGGCTGCTGCCATCCTGGCCTGGTGGAGGTTGG
GGAGCTGTAGGAGAGCTAGTGAGTCGAGACTTAGAAGAATGGGGCCACATAGCAGCAGAGGACTGGTGTAAAGGA

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FIGURE 4804

MNVGTAHSEVNPNTTRVMNSRGIWLSYVLAIGLLHIVLLSIPFVSVPVWTLTNLIHNMGMYIFLHTVKGTPFETP
DQGKARLLTHWEQMDYGVQFTASRKFLTITPIVLYFLTSFYTKYDQIHVFLNTVSLMSVLIPKLPQLHGVRIFGI
NKY

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FIGURE 4805

GAATTCGCGGCCGCTGGTTTGCAGCTGCTCCGTCATCGTGC GGCCCCGACGCTATCTCGCGCTCGTGTGCAGGCC
GGCTCGGCTCCTGGTCCCCGGTGCGAGGGTTAACGCGAGGCCCGGCTCGGTCCCCGGACTAGGCCGTGACCCC
GGGTGCCATGAAGCAGGAGGGCTCGGCGCGGCGCGCGGACAAGGCGAAACCGCGCCCGGCGGAGGAGA
ACAAGAACCCCCACCGCCGCCGCCCCCAGGATGTGGAGATGAAAGAGGAGGCAGCGACGGGTGGCGGGTCAAC
GGGGGAGGCAGACGGCAAGACGGCGGCGGCAGCGGTTGAGCACTCCAGCGAGAGCTGGACACAGTCACCTTGGA
GGACATCAAGGAGCACGTGAAACAGCTAGAGAAAGCGGTTTCAGGCAAGGAGCCGAGATTCGTGCTGCGGGCCCT
GCGGATGCTGCCTTCCACATCACGCCGCCTCAACCACTATGTTCTGTATAAGGCTGTGCAGGGCTTCTTCACTTC
AAATAATGCCACTCGAGACTTTTTGCTCCCCCTTCTGGAAGAGCCCATGGACACAGAGGCTGATTTACAGTTCCG
TCCCCGACGGGAAAAGCTGCGTCGACACCCCTCCTGCCTGAAGTGGAAGCCTATCTCCAACCTCCTCGTGGTCAT
CTTCATGATGAACAGCAAGCGCTACAAAGAGGCACAGAAGATCTCTGATGATCTGATGCAGAAGATCAGTACTCA
GAACCGCCGGGCCCCCTAGACCTTGTAGCCGCAAAGTGTTACTATTATCACGCCCCGGGTCTATGAGTTCCTGGACAA
GCTGGATGTGGTGCGCAGCTTCTTGCACTGCTCGGCTCCGGACAGCTACGCTTCGGCATGACGCAGACGGGCAGGC
CACCTGTTGAACCTCCTGCTGCGGAATTACCTACACTACAGCTTGTACGACCAGGCTGAGAAGCTGGTGTCCAA
GTCTGTGTTCCAGAGCAGGCCAACAACAATGAGTGGGCCAGGTACCTCTACTACACAGGGCGAATCAAAGCCAT
CCAGCTGGAGTACTCAGAGGCCCGGAGAACGATGACCAACGCCCTTCGCAAGGCCCTCAGCACACAGCTGTCGG
CTTCAAACAGACGGTGCACAAGCTTCTCATCGTGGTGGAGCTGTTGCTGGGGGAGATCCCTGACCGGCTGCAGTT
CCGCCAGCCCTCCCTCAAGCGCTCACTCATGCCCTATTTCTTCTGACTCAAGCTGTCAGGACAGGAAACCTAGC
CAAGTTCAACCAGGTCTGGATCAGTTTGGGGAGAAGTTTCAAGCAGATGGGACCTACACCCTAATTATCCGGCT
GCGGCACAACGTGATTAAGACAGGTGTACGCATGATCAGCCTCTCCTATTCCCGAATCTCCTTGGCTGACATCGC
CCAGAAGCTGCAGTTGGATAGCCCCGAAGATGCAGAGTTTATTGTTGCCAAGGCCATCCGGGATGGTGTGATTGA
GGCCAGCATCAACCACGAGAAGGGCTATGTCCAATCCAAGGAGATGATTGACATCTATTCCACCCGAGAGCCCCA
GCTAGCCTTCCACAGCGCATCTCCTTCTGCCTAGATATCCACAACATGTCTGTCAAGGCCATGAGGTTTCTCTC
CAAATCGTACAACAAGGACTTGGAGTCTGCAGAGGAACGGCGTGAGCGAGAACAGCAGGACTTGGAGTTTGCCAA
GGAGATGGCAGAAGATGATGATGACAGCTTCCCTTGAGCTGGGGGGCTGGGGAGGGGTAGGGGGAATGGGGACAG
GCTCTTTCCCCCTTGGGGGTCCCCTGCCCAGGGCACTGTCCCATTCTTCCACACACAGCTCATATGCTGCATTC
GTGCAGGGGGTGGGGGTGCTGGGAGCCAGCCACCTGACCTCCCCAGGGCTCCTCCCCAGCCGGTGACTTACTG
TACAGCAGGCAGGAGGGTGGGCAGGCAACCTCCCCGGGCAGGGTCTGGCCAGCAGTGTGGGAGCAGGAGGGGAA
GGATAGTTCTGTGTACTCCTTTAGGGAGTGGGGGACTAGAACTGGGATGTCTTGGCTTGTATGTTTTTTGAAGCT
TCGATTATGATTTTTTAAACAATAAAAAGTTCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAGCGCCGCGAAT
TC

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FIGURE 4806

MKQEGSARRRGADKAKPPPGGGEQEP PPPPAPQD VEMKEEAATGGGSTGEADGKTAAA AVEHSQRELDTVTLEDI
KEHV KQLEKAVSGKEPRFVLRALRMLPSTSRRLNHYVLYKAVQGFFTSNNATRD FLLPFLEEPMDTEADLQFRPR
TGKAAS TPLLPEVEAYLQLLV VIFMMNSKRYKEAQKISDDL MQKISTQNRRALDLVAAK CYYYHARVYEF LDKLD
VVR SFLHARLRTATLRHDADGQATLLNLLL RNYLHYSLYDQAEKLVSKSVFPEQANNNEWARYLYYTGR IKA IQL
EYSEARRTMTNALRKAPQHTAVGFKQTVHKLLIVVELLLGEIPDRLQFRQPSLKRS LMPYFLLTQAVRTGNLAKF
NQVLDQFGEKFQADGTYTLIIRLRHNVIKTGVRMISLSYSRISLADIAQKLQLDSPEDA EFIVAKAIRDGVIEAS
INHEKGYVQSKEMIDIYSTREPQLAFHQRI SFCLDIHNMSVKAMRFPPKSYNKDLES AEERREREQQDLEFAKEM
AEDDDDSFP

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FIGURE 4807

CTCCTCTCCAGCCCTTCTCCTGTGTGCCTGCCTCCTGCCGCCGCCACCATGACCACCTCCATCCGCCAGTTCACC
TCCTCCAGCTCCATCAAGGGCTCCTCCGGCCTGGGGGGCGGCTCGTCCCGCACCTCCTGCCGGCTGTCTGGCGGC
CTGGGTGCCGGCTCCTGCAGGCTGGGATCTGCTGGCGGCCTGGGCAGCACCCCTCGGGGGTAGCAGCTACTCCAGC
TGCTACAGCTTTGGCTCTGGTGGTGGCTATGGCAGCAGCTTTGGGGGTGTTGATGGGCTGCTGGCTGGAGGTGAG
AAGGCCACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCTGGACAAGGTGCGTGCCCTGGAGGAGGCCAAC
ACTGAGCTGGAGGTGAAGATCCGTGACTGGTACCAGAGGCAGGCCCGGGGGCCCGCCGTGACTACAGCCAGTAC
TACAGGACAATTGAGGAGCTGCAGAACAAGATCCTCACAGCCACCGTGGACAATGCCAACATCCTGCTACAGATT
GACAATGCCCGTCTGGCTGCTGATGACTTCCGCACCAAGTTTGAGACAGAGCAGGCCCTGCGCCTGAGTGTGGAG
GCCGACATCAATGGCCTGCGCAGGGTGCTGGATGAGCTGACCCTGGCCAGAGCCGACCTGGAGATGCAGATTGAG
AACCTCAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGAGGAGATGAACGCCCTGCGAGGCCAGGTGGGT
GGTGAGATCAATGTGGAGATGGACGCTGCCCCAGGCGTGGACCTGAGCCGCATCCTCAACGAGATGCGTGACCAG
TATGAGAAGATGGCAGAGAAGAACCGCAAGGATGCCGAGGATTGGTTCTTCAGCAAGACAGAGGAAGTGAACCGC
GAGGTGGCCACCAACAGTGAGCTGGTGCAGAGTGGCAAGAGTGAGATCTCGGAGCTCCGGCGCACCATGCAGGCC
TTGGAGATAGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCTGGAGGGCAACCTGGCGGAGACAGAGAACCGC
TACTGCGTGAGCTGTCCCAGATCCAGGGGCTGATTGGCAGCGTGGAGGAGCAGCTGGCCAGCTTCGCTGCGAG
ATGGAGCAGCAGAACCAGGAATACAAAATCCTGCTGGATGTGAAGACGCGGCTGGAGCAGGAGATTGCCACCTAC
CGCCGCTGCTGGAGGGAGAGGATGCCACCTGACTCAGTACAAGAAAGAACCGGTGACCACCCGTCAGGTGCGT
ACCATTGTGGAAGAGGTCCAGGATGGCAAGGTTCATCTCCTCCCGCAGCAGGTCCACCAGACCACCCGCTGAGGA
CTCAGCTACCCCGGCCGCCACCCAGGAGGCAGGGAGCAGCCGCCCATCTGCCCCACAGTCTCCGGCCTCTCCA
GCCTCAGCCCCCTGCTTCAGTCCCTTCCCCATGCTTCCTTGCCTGATGACAATAAAGCTTGTTGACTCAGCTAAA
AAAAAAAAAAAA

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FIGURE 4808

MTTSIRQFTSSSSIKGSSGLGGGSSRTSCRLSGGLGAGSCRLGSAGGLGSTLGGSSYSSCYSGSGGGYGSSFGG
VDGLLAGGEKATMQNLNDRLASYLKVRAL EEANTELEVKIRDWYQRQAPGPARDYSQYYRTIEELQNKILTATV
DNANILLQIDNARLAADDFR TKFETE QALRLSVEADINGLRRVLDELTLARADLEMQIENLKEELAYLKKNHEEE
MNALRGQVGGEINVEMDAAPGV DLSRILNEMRDQYEKMAEKNRKAEDWFFSKTEELNREVATNSELVQSGKSEI
SELRRTMQALEIELQSQLSMKASLEGNLAETENRYCVQLSQIQGLIGSVEEQLAQLRCEMEQQNQEYKILLDVKT
RLEQEIATYRRLLEGEDAHLTQYKKEPVTTRQVRTIVEEVQDGKVISSREQVHQTTTR

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FIGURE 4809

ATGACCACCTGCAGCCGCCAGTTCACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGAGGCGGCATCGGG
GGCGGCTCCAGCCGCATCTCCTCCGTCTGCGCGGAGGGTCTTGCCGTGCCCCAGCACCTACGGGGGCGGCCTG
TCTGTCTCCTCTCGCTTCTCCTCTGCGGGGAGCCTGCGGGCTGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGC
AGCAGCTTTGGTAGTGGCTTCGGGGGAGGATATGGTGGTGGCCTTGGTGCTGGCTTCGGTGGTGGCTTGGGTGCT
GGCTTTGGTGGTGGTTTTGCTGGTGGTGGTGGCTTCTGGTGGGCAGTGAGAAGGTGACCATGCAGAACCTCAAT
GACCGCTGGCCTCCTACCTGGACAAGGTGCGTGCTCTGGAGGAGGCCAACGCCGACCTGGAAGTGAAGATCCGT
GACTGGTACCAGAGGCAGCGGCCAGTGAGATCAAAGACTACAGTCCCTACTTCAAGACCATCGAGGACCTGAGG
AACAGATCATTGCGGCCACCATTGAGAATGCGCAGCCCATTTTGCAGATTGACAATGCCAGGCTGGCAGCCGAT
GACTTCAGGACCAAGTATGAGCACGAACCTGGCCCTGCGGCAGACTGTGGAGGCCGACGTCAATGGCCTGCGCCGG
GTGTTGGATGAGCTGACCCTGGCCAGGACTGACCTGGAGATGCAGATCGAAGGCCTGAAGGAGGAGCTGGCCTAC
CTGAGGAAGAACCACGAGGAGGAGATGCTTGCTCTGAGAGGTGAGACCGGCGGAGATGTGAACGTGGAGATGGAT
GCTGCACCTGGCGTGGACCTGAGCCGCATCCTGAATGAGATGCGTGACCAGTACGAGCAGATGGCAGAGAAAAAC
CGCAGAGACGCTGAGACCTGGTTCCCTGAGCAAGACCGAGGAGCTGAACAAAGAAGTGGCCTCCAACAGCGAACTG
GTACAGAGCAGCCGAGTGAGGTGACGGAGCTCCGGAGGGTGCTCCAGGGCCTGGAGATTGAGCTGCAGTCCCAG
CTCAGCATGAAAGCATCCCTGGAGAACAGCCTGGAGGAGACCAAAGGCCGCTACTGCATGCAGCTGTCCCAGATC
CAGGGACTGATTGGCAGTGTGGAGGAGCAGCTGGCCCAGCTACGCTGTGAGATGGAGCAGCAGAGCCAGGAGTAC
CAGATCTTGCTGGATGTGAAGACGCGGCTGGAGCAGGAGATTGCCACCTACCGCCGCTGCTGGAGGGCGAGGAT
GCCCACCTTTCTCCAGCAAGCATCTGGCCAATCCTATTCTTCCCGCGAGGCTTACCTCCTCCTCGTCCTCT
TCGAGCCGTCAGACCCGGCCCATCCTCAAGGAGCAGAGCTCATCCAGCTTCAGCCAGGGCCAGAGTCCTAG

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FIGURE 4810

CGGGGGTTGCTCCGTCCGTGCTCCGCCTCGCCATGACTTCCTACAGCTATCGCCAGTCGTCGGCCACGTCGTCCT
TCGGAGGCCTGGGCGGCGGCTCCGTGCGTTTTGGGCCGGGGGTCGCTTTTCGCGCGCCAGCATTCACGGGGGCT
CCGGCGGGCCGCGCGGTATCCGTGTCCTCCGCCCCGCTTTGTGTCTCGTCCTCCTCGGGGGGCTACGGCGGGGCT
ACGGCGGGCGTCTGACCGCGTCCGACGGGCTGCTGGCGGGCAACGAGAAGCTAACCATGCAGAACCTCAACGACC
GCCTGGCCTCCTACCTGGACAAGGTGCGCGCCCTGGAGGCGGCCAACGGCGAGCTAGAGGTGAAGATCCGCGACT
GGTACCAGAAGCAGGGGCTGGGCCCCCGCGACTACAGCCACTACTACACGACCATCCAGGACCTGCGGGACA
AGATTCTTGGTGCCACCATTGAGAACTCCAGGATTGTCTGTCAGATCGACAACGCCCCGTCTGGCTGCAGATGACT
TCCGAACCAAGTTTGAGACGGAACAGGCTCTGCGCATGAGCGTGGAGGCCGACATCAACGGCCTGCGCAGGGTGC
TGGATGAGCTGACCTGGCCAGGACCGACCTGGAGATGCAGATCGAAGGCCTGAAGGAAGAGCTGGCCTACCTGA
AGAAGAACCATGAGGAGGAAATCAGTACGCTGAGGGGCCAAGTGGGAGGCCAGGTGAGTGTGGAGGTGGATTCCG
CTCCGGGCACCGATCTCGCCAAGATCCTGAGTGACATGCGAAGCCAATATGAGGTGATGGCCGAGCAGAACCGGA
AGGATGCTGAAGCCTGGTTCACCAGCCGGAAGTGAAGAATTGAACGGGAGGTGCTGGCCACACGGAGCAGCTCC
AGATGAGCAGGTCCGAGGTTACTGACCTGCGGCGCACCTTCAGGGTCTTGAGATTGAGCTGCAGTCACAGCTGA
GCATGAAAGCTGCCTTGGAAGACACACTGGCAGAAACGGAGGCGCGCTTTGGAGCCCAGCTGGCGCATATCCAGG
CGCTGATCAGCGGTATTGAAGCCCAGCTGGCGGATGTGCGAGCTGATAGTGAGCGGCAGAATCAGGAGTACCAGC
GGCTCATGGACATCAAGTCGCGGCTGGAGCAGGAGATTGCCACCTACCGCAGCCTGCTCGAGGGACAGGAAGATC
ACTACAACAATTTGTCTGCCTCCAAGTCTCTGAGGCGAGCAGGCTCTGGGGCTTCTGCTGTCCTTTGGAGGGTG
TCTTCTGGGTAGAGGGATGGGAAGGAAGGGACCCTTACCCCCGGCTCTTCTCCTGACCTGCCAATAAAAAATTTAT
GGTCCAAGGG

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FIGURE 4811

MTSYSYRQSSATSSFGGLGGGSVRFGPGVAFRAPSIHGGSGGRGVSVSSARFVSSSSSSGGYGGGYGGVLTASDGL
LAGNEKLTMQNLNDRLASYLDKVRALAEANGELVKIRDWYQKQGPSPRDYSHYYTTIQDLRDKILGATIENSR
IVLQIDNARLAADDFTKFFETEALRMSVEADINGLRRVLDELTLARTDLEMQIEGLKEELAYLKKNHEEEISTL
RGQVGGQVSVEVDSAPGTDLAKILSDMRSQYEVMAEQNRKDAEAWFTSRTEELNREVAGHTEQLQMSRSEVTDLR
RTLQGLEIELQSQLSMKAALEDTLAETEARFGAQLAHIQALISGIEAQLADVRLADSERQNEQYQRLMDIKSRLEQ
EIATYRSLLLEGQEDHYNNLSASKVL

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FIGURE 4812

GGTACCTCCTGCCAGCACCTCTTGGGTTTGCTGAGAACTCACGGGCTCCAGCTACCTGGCCATGACCACCACATT
TCTGCAAACCTTCTTCCCTCCACCTTTGGGGGTGGCTCAACCCGAGGGGGTTCCCTCCTGGCTGGGGGAGGTGGCTT
TGGTGGGGGGAGTCTCTCTGGGGGAGGTGGAAGCCGAAGTATCTCAGCTTCTTCTGCTAGGTTTGTCTCTTCAGG
GTCAGGAGGAGGATATGGGGGTGGCATGAGGGTCTGTGGCTTTGGTGGAGGGGCTGGTAGTGTTTTCGGTGGAGG
CTTTGGAGGGGGCGTTGGTGGGGGTTTTGGTGGTGGCTTTGGTGGTGGCGATGGTGGTCTCCTCTCTGGCAATGA
GAAAATTACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCTGGACAAGGTACGTGCCCTGGAGGAGGCCAA
TGCTGACCTGGAGGTGAAGATCCATGACTGGTACCAGAAGCAGACCCCAGCCAGCCCAGAATGCGACTACAGCCA
ATACTTCAAGACCATTGAAGAGCTCCGGGACAAGATCATGGCCACCACCATCGACAACCTCCCGGGTCATCCTGGA
GATCGACAATGCCAGGCTGGCTGCGGACGACTTCAGGCTCAAGTATGAGAATGAGCTGGCCCTGCGCCAGGGCGT
TGAGGCTGACATCAACGGCTTGCGCCGAGTCCTGGATGAGCTGACCCTGGCCAGGACTGACCTGGAGATGCAGAT
CGAGGGCCTGAATGAGGAGCTAGCCTACCTGAAGAAGAACCACGAAGAGGAGATGAAGGAGTTCAGCAGCCAGCT
GGCCGGCCAGGTCAATGTGGAGATGGACGCAGCACCGGGTGTGGACCTGACCCGTGTGCTGGCAGAGATGAGGGA
GCAGTACGAGGCCATGGCGGAGAAGAACC GCCGGGATGTGCGAGGCCTGGTTCTTCAGCAAGACTGAGGAGCTGAA
CAAAGAGGTGGCCTCCAACACAGAAATGATCCAGACCAGCAAGACGGAGATCACAGACCTGAGACGCACGATGCA
GGAGCTGGAGATCGAGCTGCAGTCCCAGCTCAGCATGAAAGCTGGGCTGGAGAACTCACTGGCCGAGACAGAGTG
CCGCTATGCCACGCAGCTGCAGCAGATCCAGGGGCTCATTGGTGGCCTGGAGGCCAGCTGAGTGAGCTCCGATG
CGAGATGGAGGCTCAGAACCAGGAGTACAAGATGCTGCTTGACATAAAGACACGGCTGGAGCAGGAGATCGCTAC
TTACCGCAGCCTGCTCGAGGGCCAGGATGCCAAGATGGCTGGCATTGGCATCAGGGAAGCCTCTTCAGGAGGTGG
TGGTAGCAGCAGCAATTTCCACATCAATGTAGAAGAGTCAGTGGATGGACAGGTGGTTTCTTCCCACAAGAGAGA
AATCTAAGTGTCTATTGTCAGGAGAAACGTCCCTTGCCACTCCCCACTCTCATCAGGCCAAGTGGAGGACTGGCCA
GAGGGCCTGCACATGCAAACTCCAGTCCCTGCCTTCAGAGAGCTGAAAAGGGTCCCTCGGTCTTTTATTTTCAGGG
CTTTGCATGCGCTCTATTCCCCCTCTGCCTCTCCCCACCTTCTTTGGAGCAAGGAGATGCAGCTGTATTGTGTAA
CAAGCTCATTGTGTACAGTGTCTGTTCATGTAATAAAGAATTACTTTTCCTTTTGCAAAAT

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FIGURE 4813

MTTFLQTSSSTFGGGSTRGGSLLAGGGGFGGGSLSGGGGSRSISASSARFVSSGSGGGYGGGMRVCGFGGGAGS
VFGGGFGGGVGGGFGGGFGGGDGGLLSGNEKITMQNLNDRLASYLDKVRALEEANADLEVKIHDWYQKQTPASPE
CDYSQYFKTIEELRDKIMATTIDNSRVILEIDNARLAADDFRLKYENELALRQGVEADINGLRRVLDELTTLARTD
LEMQIEGLNEELAYLKKNHHEEMKEFSSQLAGQVNVEMDAAPGVDLTRVLAEMREQYEAMAEKNRRDVEAWFFSK
TEELNKEVASNTEMIQTSKTEITDLRRTMQELEIELQSQLSMKAGLENSLAETECRYATQLQQIQGLIGGLEAQL
SELRCEMEAQNQEYKMLLDIKTRLEQEIATYRSLLEGQDAKMAGIGIREASSGGGGSSSNFHNVEESVDGQVVS
SHKREI

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FIGURE 4814

GGCCAAGCAAGCTTCTATCTGCACCTGCTCTCAATCCTGCTCTCACCATGAGCCTCCGCCTGCAGAGCTCCTCTG
CCAGCTATGGAGGTGGTTTTCGGGGGTGGCTCTTGCCAGCTGGGAGGAGGCCGTGGTGTCTCTACCTGTTCAACTC
GGTTTGTGTCTGGGGGATCAGCTGGGGGCTATGGAGGCGGCGTGAGCTGTGGTTTTGGTGGAGGGGCTGGTAGTG
GCTTTGGAGGTGGCTATGGAGGTGGCCTTGAGGTGGCTATGGAGGTGGCCTTGAGGTGGCTTTGGTGGGGGTT
TTGCTGGTGGCTTTGTTGACTTTGGTGCTTGTGATGGCGGCCCTCCTCACTGGCAATGAGAAGATCACCATGCAGA
ACCTCAACGACCGCCTGGCTTCCTACCTGGAGAAGGTGCGCGCCCTGGAGGAGGCCAACGCTGACCTGGAGGTGA
AGATCCGTGACTGGCACCTGAAGCAGAGCCAGCTAGCCCTGAGCGGGACTACAGCCCCTACTACAAGACCATTG
AAGAGCTCCGGGACAAGATCCTGACCGCCACCATTGAAAACAACCGGGTCATCCTGGAGATTGACAATGCCAGGC
TGGCTGTGGACGACTTCAGGCTCAAGTATGAGAATGAGCTGGCCCTGCGCCAGAGCGTGGAGGCCGACATCAACG
GCCTGCGCCGGGTGCTGGATGAGCTCACTCTGTCTAAGACTGACCTGGAGATGCAGATCGAGAGCCTGAATGAAG
AGCTAGCCTACATGAAGAAGAACCATGAAGAGGAGATGAAGGAATTTAGCAACCAGGTGGTCCGCCAGGTCAACG
TGGAGATGGATGCCACCCAGGCATTGACCTGACCCGCGTGCTGGCAGAGATGAGGGAGCAGTACGAGGCCATGG
CAGAGAGGAACCGCCGGGATGCTGAGGAATGGTTCCACGCCAAGAGTGCAGAGCTGAACAAGGAGGTGTCTACCA
ACACTGCCATGATTACAGACCAGCAAGACAGAGATCACGGAGCTCAGGCGCACGCTCCAAGGCCTGGAGATTGAGC
TGCAGTCCCAGCTGAGCATGAAAGCGGGGCTGGAGAACACGGTGGCAGAGACGGAGTGCCGCTATGCCCTGCAGC
TGCAGCAGATCCAGGGACTCATCAGCAGCATCGAGGCCAGCTGAGCGAGCTCCGCAGTGAGATGGAGTGCCAGA
ACCAAGAGTACAAGATGCTGCTGGACATCAAGACACGTCTGGAGCAGGAGATCGCCACCTACCGCAGCCTGCTCG
AGGGCCAGGACGCCAAGAAGCGTCAGCCCCCGTAGCACCTCTGTTACCACGACTTCTAGTGCTCTGTTACCACC
ACCTCTAATGCCTCTGGTCGCCGCACTTCTGATGTCCGTAGGCCTTAAATCTGCCTGGCGTCCCCTCCCTCTGTC
TTCAGCACCCAGAGGAGGAGAGAGCCGGCAGTTCCCTGCAGGAGAGAGGAGGGGCTGCTGGACCCAAGGCTCAGT
CCCTCTGCTCTCAGGACCCCTGTCTGACTCTCTCCTGATGGTGGGCCCTCTGTGCTCTTCTCTTCCGGTCGGA
TCTCTCTCCTCTCTGACCTGGATACGCTTTGGTTTCTCAACTTCTCTACCCCAAAGAAAAGATTATTCAATAAAG
TTTCTGCCTTTCTGCAACATAAAAA

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FIGURE 4815

MSLRQSSSASYGGGFGGGSCQLGGGRGVSTCSTRFVSGGSAGGYGGGVSCGFGGGAGSGFGGGYGGGLGGGYGG
GLGGGFGGGFAGGFVDFGACDGGLLTGNEKITMQNLNDRLASYLEKVRALEEANADLEVKIRDWHLKQSPASPER
DYSPYYKTIEELRDKILTATIENNRVILEIDNARLAVDDFRLKYENELALRQSV EADINGLRRVLDELTL SKTDL
EMQIESLNEELAYMKKNHEEEMKEFSNQVVGQVNVEMDATPGIDLTRVLAEMREQYEAMAERNRRDAEEWFHAKS
AELNKEVSTNTAMIQTSKTEITELRRTLQGLEIELQSQLSMKAGLENTVAETECRYALQLQQIQGLISSIEAQLS
ELRSEMECQNQEYKMLLDIKTRLEQEIATYRSLLLEGQDAKKRQPP

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FIGURE 4816

ACCCGAGCACCTTCTCTTCACTCAGCCAACCTGCTCGCTCGCTCACCTCCCTCCTCTGCACCATGACTACCTGCAG
CCGCCAGTTACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGGGGCGGCATCGGGGGCGGCTCCAGCCG
CATCTCCTCCGTCCCTGGCCGGAGGGTCCTGCCGCGCCCCCAGCACCTACGGGGGGCGGCCTGTCTGTCTCATCCTC
CCGCTTCTCCTCTGGGGGAGCCTACGGGCTGGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGCAGCAGCAGCTT
TGGTAGTGGCTTTGGGGGAGGATATGGTGGTGGCCTTGGTGCTGGCTTGGGTGGTGGCTTTGGTGGTGGCTTTGC
TGGTGGTGGTGGCTTCTGGTGGGCAGTGAGAAGGTGACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCT
GGACAAGGTGCGTGCTCTGGAGGAGGCCAACGCCGACCTGGAAGTGAAGATCCGTGACTGGTACCAGAGGCAGCG
GCCTGCTGAGATCAAAGACTACAGTCCCTACTTCAAGACCATTGAGGACCTGAGGAACAAGATTCTCACAGCCAC
AGTGGACAATGCCAATGTCCTTCTGCAGATTGACAATGCCCGTCTGGCCGCGGATGACTTCCGCACCAAGTATGA
GACAGAGTTGAACCTGCGCATGAGTGTGGAAGCCGACATCAATGGCCTGCGCAGGGTGCTGGACGAACTGACCCT
GGCCAGAGCTGACCTGGAGATGCAGATTGAGAGCCTGAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGA
GGAGATGAATGCCCTGAGAGGCCAGGTGGGTGGAGATGTCAATGTGGAGATGGACGCTGCACCTGGCGTGGACCT
GAGCCGCATTCTGAACGAGATGCGTGACCAGIATGAGAAGATGGCAGAGAAGAACC GCAAGGATGCCGAGGAATG
GTTCTTCACCAAGACAGAGGAGCTGAACCGCGAGGTGGCCACCAACAGCGAGCTGGTGCAGAGCGGCAAGAGCGA
GATCTCGGAGCTCCGGCGCACCATGCAGAACCTGGAGATTGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCT
GGAGAACAGCCTGGAGGAGACCAAAGGTGCTACTGCATGCAGCTGGCCCAGATCCAGGAGATGATTGGCAGCGT
GGAGGAGCAGCTGGCCCAGCTCCGCTGCGAGATGGAGCAGCAGAACCAGGAGTACAAGATCCTGCTGGACGTGAA
GACGCGGCTGGAGCAGGAGATCGCCACCTACCGCCGCTGCTGGAGGGCGAGGACGCCCCACCTCTCCTCCTCCCA
GTTCTCCTCTGGATCGCAGTCATCCAGAGATGTGACCTCCTCCAGCCGCCAAATCCGCACCAAGGTCATGGATGT
GCACGATGGCAAGGTGGTGTCCACCCACGAGCAGGTCCTTCGCACCAAGAAGTGAGGCTGCCAGCCCCGCTCAG
GCCTAGGAGGCCCCCGTGTGGACACAGATCCCACTGGAAGATCCCCTCTCCTGCCCAAGCACTTCACAGCTGGA
CCCTGCTTACCCCTACCCCCCTCCTGGCAATCAATACAGCTTCATTATCTGAGTTGCAT

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FIGURE 4817

MTTC SRQFTSSSSMKGSCGIGGGIGGGSSRISSVLAGGSCRAPSTYGGGLSVSSSRFSSGGAYGLGGGYGGGFSS
SSSSFGSGFGGGYGGGLGAGLGGGFGGGFAGGDGLLVGSEKVTMQLNDRLASYLDKVRALEEANADLEV KIRDW
YQRQRP AEIKDYSPYFKTIEDLRNKILTATVDNANVLLQIDNARLAADDFRTKYETELNLRMSVEADINGLRRVL
DELT LARADLEMQIESLKEELAYLKKNHEEEMNALRGQVGGDVNVEMDAAPGV DLSRI LNEMRDQYEKMAEKNRK
DAEEWFFTKTEELNREVATNSELVQSGKSEISELRRTMQLNLEI ELQSLMKASLENSLEETKGRYCMQLAQIQE
MIGSV EEQLAQLRCEMEQQNQEYKILLDVKTRLEQEIATYRRLLEGED AHLSSSQFSSGSQSSRDVTSSSRQIRT
KVMDVHDGKVVSTHEQVLR TKN

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FIGURE 4818

AGCCCCCTGCCCCCTGCGCGCCCGCCGCTGCCTGGGCGGGCCGAGGATGCGGCGCAGCGCCTCGGCGGGCCAGGC
TTGCTCCCCCTCCGGCACGCCTGCTAACTTCCCCCGCTACGTCCCCGTTGCCCCGCCGGGCCGCCCCGTCTCCCCG
CGCCCCCTCCGGGTGCGGTCTTCCAGGAGCGCCAGGCGCTGCCGCCGTGTGCCCTCCGCCGCTCGCCCCGCGCGCCCCG
CGCTCCCCCGCTGCGCCAGCGCCCCGCGCCCGCGCCAGTCCTCGGGCGGTTCATGCTGCCCCCTCTGCCCTCGTGG
CCGCCCTGTGTGCTGGCCGCCGGGCCCGGGCCGAGCCTGGGCGACGAAGCCATCCACTGCCCCGCCCTGCTCCGAGG
AGAAGCTGGCGCGCTGCCGCCCCCGGTGGGCTGCGAGGAGCTGGTGCGAGAGCCGGGCTGCGGCTGTTGCGCCA
CTTGCGCCCTGGGCTTGGGGATGCCCTGCGGGGTGTACACCCCCGTTGCGGCTCGGGCCTGCGCTGCTACCCGC
CCCAGGGGTGGAGAAGCCCCCTGCACACACTGATGCACGGGCAAGGCGTGTGCATGGAGCTGGCGGAGATCGAGG
CCATCCAGGAAAGCCTGCAGCCCTCTGACAAGGACGAGGGTGACCACCCCAACAACAGCTTCAGCCCCGTAGCG
CCCATGACCGCAGGTGCCTGCAGAAGCACTTCGCCAAAATTGAGACCGGAGCACCAGTGGGGGCAAGATGAAGG
TCAATGGGGCGCCCCGGGAGGATGCCCGGCTGTGCCCCAGGGCTCCTGCCAGAGCGAGCTGCACCGGGCGCTGG
AGCGGCTGGCCGCTTACAGAGCCGACCCACGAGGACCTCTACATCATCCCCATCCCCAACTGCGACCGCAACG
GCAACTTCCACCCCAAGCAGTGTACCCAGCTCTGGATGGGCGAGCGTGGCAAGTGTGGTGTGTGGACCGGAAGA
CGGGGGTGAAGCTTCCGGGGGGCCTGGAGCCAAAGGGGGAGCTGGACTGCCACCAGCTGGCTGACAGCTTTCGAG
AGTGAGGCCTGCCAGAGGCCAGGGACTCAGCGTCCCCCTGCTACTCCTGTGCTCTGGAGGCTGCAGAGCTGACCC
AGAGTGGAGTCTGAGTCTGAGTCTGTCTGTGCTGCGGCCAGAAAGTTTCCCTCAAATGCGCGTGTGCACGTGT
GCGTGTGCGTGTGTGTGTGTGTTTGTGAGCATGGGTGTGCCCTTGGGGTAAGCCAGAGCCTGGGGTGTCTCT
TTGGTGTACACAGCCCAAGAGGACTGAGACTGGCACTTAGCCCAAGAGGTCTGAGCCCTGGTGTGTTTCCAGAT
CGATCCTGGATTCACTCACTCACTCATTCTTCACTCATCCAGCCACCTAAAAACATTTACTGACCATGTACTAC
GTGCCAGCTCTAGTTTTTCCAGCCTTGGGAGGTTTTATTCTGACTTCCTCTGATTTTGGCATGTGGAGACACTCCTA
TAAGGAGAGTTCAAGCCTGTGGGAGTAGAAAAATCTCATTCCCAGAGTCAGAGGAGAAGAGACATGTACCTTGAC
CATCGTCTTCTCTCAAGCTAGCCAGAGGGTGGGAGCCTAAGGAAGCGTGGGGTAGCAGATGGAGTAATGGTCA
CGAGGTCCAGACCCACTCCCAAAGCTCAGACTTGCCAGGCTCCCTTTCTCTTCTTCCCCAGGTCTTCTTTAGG
TCTGGTTGTTGCACCATCTGCTTGGTTGGCTGGCAGCTGAGAGCCCTGCTGTGGGAGAGCGAAGGGGGTCAAAGG
AAGACTTGAAGCACAGAGGGCTAGGGAGGTGGGGTACATTTCTCTGAGCAGTCAGGGTGGGAAGAAAGAATGCAA
GAGTGGACTGAATGTGCCTAATGGAGAAGACCCACGTGCTAGGGGATGAGGGGCTTCTGGGTCTGTTCCCTAC
CCCATTGTGGTTCACAGCCATGAAGTCACCGGATGAACCTATCCTTCCAGTGGCTCGCTCCCTGTAGCTCTGCC
TCCCTCTCCATATCTCCTTCCCTACACCTCCCTCCCCACACCTCCCTACTCCCCTGGGCATCTTCTGGCTTGAC
TGGATGGAAGGAGACTTAGGAACCTACCAGTTGGCCATGATGTCTTTTCTT

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FIGURE 4819A

CCCTTCACGACCGTCACCATGGAAGTGTACCATTGCAGCCTGTAAATGAAAATATGCAAGTCAACAAAATAAAG
AAAAATGAAGATGCTAAGAAAAGACTGTCTGTTGAAAGAATCTATCAAAAAGAAAACACAATTGGAACATATTTTG
CTCCGCCAGACACCTACATTGGTTCTGTGGAATTAGTGACCCAGCAAATGTGGGTTTACGATGAAGATGTTGGC
ATTAATAATAGGGAAGTCACTTTTGTTCTGGTTTGTACAAAATCTTTGATGAGATTCTAGTTAATGCTGCGGAC
AACAAACAAAGGGACCCAAAATGTCTTGTATTAGAGTCACAATTGATCCGGAAAAACAATTTAATTAGTATATGG
AATAATGGAAGGTATTCTGTGTTGAACACAAAGTTGAAAAGATGTATGTCCCAGCTCTCATATTTGGACAG
CTCCTAATTCTAGTAACCTATGATGATGAAAAGAAAGTGACAGGTGGTTCGAAATGGCTATGGAGCCAAATTG
TGTAACATATTAGTACCAATTTACTGTGGAACAGCCAGTAGAGAATACAAGAAAATGTTCAAACAGACATGG
ATGGATAATATGGGAAGAGCTGGTGAGATGGAACCTCAAGCCCTTCAATGGAGAAGATTATACATGTATCACCTTT
CAGCCTGATTTGTCTAAGTTTAAAATGCAAAGCCTGGACAAAGATATTGTTGCACTAATGGTCAGAAGAGCATAT
GATATTGCTGGATCCACCAAGATGTCAAAGTCTTTCTTAATGGAAATAAACTGCCAGTAAAAGGATTTTCGTAGT
TATGTGGACATGTATTTGAAGGACAAGTTGGATGAACTGGTAACTCCTTGAAAGTAATACATGAACAAGTAAAC
CACAGGTGGGAAGTGTGTTAACTATGAGTGAAAAGGCTTTTCAGCAAATTAGCTTTGTCAACAGCATTGCTACA
TCCAAGGGTGGCAGACATGTTGATTATGTAGCTGATCAGATTGTGACTAACTTGTGATGTTGTGAAGAAGAAG
AACAAGGGTGGTGTGTCAGTAAAAGCACATCAGGTGAAAATCACATGTGGATTTTTGTAAATGCCTTAATTGAA
AACCAACCTTTGACTCTCAGACAAAAGAAAACATGACTTTACAACCAAGAGCTTTGGATCAACATGCCAATTG
AGTGAAAAATTTATCAAAGCTGCCATTGGCTGTGGTATTGTAGAAAGCATACTAACTGGGTGAAGTTTAAGGCC
CAAGTCCAGTTAAACAAGAAGTGTTCAGCTGTAAAACATAATAGAATCAAGGGAATTCCCAAACCTCGATGATGCC
AATGATGCAGGGGGCCGAACTCCACTGAGTGTACGCTTATCCTGACTGAGGGAGATTTCAGCCAAAACCTTTGGCT
GTTTCAGGCCTTGGTGTGGTGGGAGAGACAAAATATGGGGTTTTCCCTCTTAGAGGAAAAATACTCAATGTTCTGA
GAAGCTTCTCATAAGCAGATCATGGAAAATGCTGAGATTAACAATATCATCAAGATTGTGGGTCTTCAGTACAAG
AAAACTATGAAGATGAAGATTCATTGAAGACGCTTCGTTATGGGAAGATAATGATTATGACAGATCAGGACCAA
GATGGTTCACATCAAAGGCTTGCTGATTAATTTTATCCATCACAACCTGGCCCTCTCTTCTGCGACATCGTTTT
CTGGAGGAATTTATCACTCCCATTGTAAAGGTATCTAAAAACAAGCAAGAAATGGCATTTTACAGCCTTCCTGAA
TTTGAAGAGTGAAGAGTTCTACTCCAAATCATAAAAAATGGAAAGTCAAATATTACAAAGGTTTGGGCACCAGC
ACATCAAAGGAAGCTAAAGAATACTTTGCAGATATGAAAAGACATCGTATCCAGTTCAAATATTCTGGTCCTGAA
GATGATGCTGCTATCAGCCTGGCCTTTAGCAAAAAACAGATAGATGATCGAAAGGAATGGTTAACTAATTTTCATG
GAGGATAGAAGACAACGAAAGTTACTTGGGCTTCTGAGGATTACTTGTATGGACAACTACCACATATCTGACA
TATAATGACTTCATCAACAAGGAACCTTATCTTGTCTCAAATCTGATAACGAGAGATCTATCCCTTCTATGGTG
GATGGTTTGAACCAGGTGAGAGAAAGGTTTTGTTTACTTGCTTCAAACGGAATGACAAGCGAGAAGTAAAGGTT
GCCCCAATTAGCTGGATCAGTGGCTGAAATGTCTTCTTATCATCATGGTGAGATGTCCTAATGATGACCATTATC
AATTTGGCTCAGAAATTTGTGGGTAGCAATAATCTAAACCTCTTGACGCCCATTGGTCAGTTTGGTACCAGGCTA
CATGGTGGCAAGGATTCTGCTAGTCCACGATACATCTTTACAATGCTCAGCTCTTTGGCTCGATTGTTATTTCCA
CCAAAAGATGATCACACGTTGAAGTTTTTATATGATGACAACCAGCGTGTGAGCCTGAATGGTACATTCCTATT
ATTCCCATGGTGCTGATAAATGGTGCTGAAGGAATCGGTACTGGGTGGTCTGCAAAATCCCCAAGTTTGTATGTG
CGTGAAATTTGAAATAACATCAGGCGTTTGTATGGATGGAGAAGAACCCTTTGCCAATGCTTCCAAGTTACAAGAAC
TTCAAGGGTACTATTGAAGAAGTGGCTCCAAATCAATATGTGATTAGTGGTGAAGTAGCTATTCTTAATTCTACA
ACCATTTGAAATCTCAGAGCTTCCCGTCAGAACATGGACCCAGACATACAAAGAACAAGTTCTAGAAGCCATGTTG
AATGGCACCGAGAAGACACCTCCTCTCATAACAGACTATAGGGAATACCATACAGATACCACTGTGAAATTTGTT
GTGAAGATGACTGAAGAAAACTGGCAGAGGCAGAGAGAGTTGGACTACACAAAGTCTTCAAACCTCCAACTAGT
CTCATATGCAACTCTATGGTGCTTTTTGACCACGTAGGCTGTTTAAAGAAATATGACACGGTGTGGATATTCTA
AGAGACTTTTTTGAACCTCAGACTTAAATATTATGGATTAAGAAAAGAAATGGCTCCTAGGAATGCTTGGTGCTGAA
TCTGCTAAACTGAATAATCAGGCTCGCTTTATCTTAGAGAAAATAGATGGCAAAATAATCATTGAAAATAAGCCT
AAGAAAGAATTAATTAAGTTCTGATTTCAGAGGGGATATGATTCCGATCCTGTGAAGGCCTGGAAAGAAGCCCAG
CAAAGGTTCCAGATGAAGAAGAAAAATGAAGAGAGTGACAACGAAAAGGAACTGAAAAGAGTGACTCCGTAACA
GATTCTGGACCAACCTTCAACTATCTTCTTGATATGCCCTTTGGTATTTAACCAAGGAAAAGAAAGATGAACTC
TGCAGGCTAAGAAATGAAAAAGAACAAGAGCTGGACACATTAAGAAAGAAAGAGTCCATCAGATTTGTGGAAAGAA
GACTTGGCTACATTTATTGAAGAATTGGAGGCTGTTGAAGCCAAGGAAAAACAAGATGAACAAGTCGGACTTCCT

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FIGURE 4819B

GGGAAAGGGGGAAGGCCAAGGGGAAAAAACACAAATGGCTGAAGTTTTGCCTTCTCCGCGTGGTCAAAGAGTC
ATTCCACGAATAACCATAGAAATGAAAGCAGAGGCAGAAAAGAAAAATAAAAAGAAAATTAAGAATGAAAAACT
GAAGGAAGCCCTCAAGAAGATGGTGTGGAAGTAGAAGGCCTAAACAAAGATTAGAAAAGAAACAGAAAAGAGAA
CCAGGTACAAAGACAAAGAAACAACTACATTGGCATTTAAGCCAATCAAAAAAGGAAAGAAGAGAAATCCCTGG
TCTGATTAGAATCAGATAGGAGCAGTGACGAAAGTAATTTTGATGTCCCTCCACGAGAAACAGAGCCACGGAGA
GCAGCAACAAAAACAAAATTCACAATGGATTTGGATTCAGATGAAGATTTCTCAGATTTTGATGAAAAAACTGAT
GATGAAGATTTTGTCCCATCAGATGCTAGTCCACCTAAGACCAAACTTCCCCAAACTTAGTAACAAAGAACTG
AAACCACAGAAAAGTGTGTCGTGTCAGACCTTGAAGCTGATGATGTTAAGGGCAGTGTACCACTGTCTTCAAGCCCT
CCTGCTACACATTTCCAGATGAACTGAAATTACAAACCCAGTTCCTAAAAAGAATGTGACAGTGAAGAAGACA
GCAGCAAAAAGTCAGTCTTCCACCTCCACTACCGGTGCCAAAAAAGGGCTGCCCCAAAAGGAACATAAAGGGAT
CCAGCTTTGAATTCTGGTGTCTCTCAAAAGCCTGATCCTGCCAAAACCAAGAATCGCCGCAAAGGAAGCCATCC
ACTTCTGATGATTCTGACTCTAATTTTGAGAAAATTGTTTCGAAAGCAGTCACAAGCAAGAAATCCAAGGGGGAG
AGTGATGACTTCCATATGGACTTTGACTCAGCTGTGGCTCCTCGGGCAAATCTGTACGGGCAAAGAAACCTATA
AAGTACCTGGAAGAGTCAGATGAAGATGATCTGTTTTAAATGTGAGGCGATTATTTTAAGTAATTATCTTACCA
AGCCCAAGACTGGTTTTAAAGTTACCTGAAGCTCTTAACCTCCCTCTGAATTTAGTTTGGGGAAGGTGTTT
TTAGTACAAGACATCAAAGTGAAGTAAAGCCCAAGTGTTCTTTAGCTTT

5226/6881
FIGURE 4820

GCCATCTGGGCCCAGGCCCATGCCCCGAGGAGGGGTGGTCTGAAGCCCCACCAGAGCCCCCTGCCAGACTGTCTG
CCTCCCTTCTGACTGTGGCCGCTTGGC**ATG**CCAGCAACAGCAGCTCCTGCCCGACACCTGGGGGCGGGCACCTC
AATGGGTACCCGGTGCCCTCCCTACGCCTTCTTCTCCCCCTATGCTGGGTGGACTCTCCCGCCAGGCGCTCTG
ACCACTCTCCAGCACCAGCTTCCAGTTAGTGGATATAGCACACCATCCCCAGCCACCATGAGACCCAGAGCAGC
AGTTCTGAAGAGATAGTGCCAGCCCTCCCTCGCCACCCCTCTACCCCGCATCTACAAGCCTTGCTTTGTCTGT
CAGGACAAGTCCCTCAGGCTACCACTATGGGGTCAGCGCCTGTGAGGGCTGCAAGGGCTTCTTCCGCCGAGCATC
CAGAAGAACATGGTGTACACGTGTACCGGGACAAGAAGTGCATCATCAACAAGGTGACCCGGAACCGCTGCCAG
TACTGCCGACTGCAGAAGTGCTTTGAAGTGGGCATGTCCAAGGAGTCTGTGAGAAACGACCGAAACAAGAAGAAG
AAGGAGGTGCCCAAGCCCGAGTGCTCTGAGAGCTACACGTGACGCCGGAGGTGGGGGAGCTCATTGAGAAGGTG
CGCAAAGCGCACCAGGAAACCTTCCCTGCCCTCTGCCAGCTGGGCAAATACACTACGAACAACAGCTCAGAACAA
CGTGTCTCTCTGGACATTGACCTCTGGGACAAGTTTCACTGAACTCTCCACCAAGTGATCATTAAAGACTGTGGAG
TTCGCCAAGCAGCTGCCCGGCTTACCACCCCTCACCATCGCCGACCAGATCACCTCCTCAAGGCTGCCTGCCTG
GACATCCTGATCCTGCGGATCTGCACGCGGTACACGCCCAGCAGGACACCATGACCTTCTCGGACGGGCTGACC
CTGAACCGGACCCAGATGCACAACGCTGGCTTCGGCCCCCTCACCGACCTGGTCTTTGCCTTCGCCAACCCAGCTG
CTGCCCCCTGGAGATGGATGATGCGGAGACGGGGCTGCTCAGCGCCATCTGCCTCATCTGCGGAGACCGCCAGGAC
CTGGAGCAGCCGACCGGGTGACATGCTGCAGGAGCCGCTGCTGGAGGCGCTAAAGGTCTACGTGCGGAAGCGG
AGGCCCAGCCGCCCCACATGTTCCCAAGATGCTAATGAAGATTACTGACCTGCGAAGCATCAGCGCCAAGGGG
GCTGAGCGGGTGATCAGCTGAAGATGGAGATCCCGGGCTCCATGCCGCTCTCATCCAGGAAATGTTGGAGAAC
TCAGAGGGCCTGGACACTCTGAGCGGACAGCCGGGGGTGGGGGGCGGGACGGGGGTGGCCTGGCCCCCCCCGCCA
GGCAGCTGTAGCCCCAGCCTCAGCCCCAGCTCCAACAGAAGCAGCCCGGCCACCCACTCCCCG**TGAC**CGCCACG
CCACATGGACACAGCCCTCGCCCTCCGCCCGGCTTTTCTCTGCCTTTCTACCGACCATGTGACCCCGCACCAGC
CCTGCCCCACCTGCCCTCCCGGGCAGTACTGGGGACCTTCCCTGGGGGACGGGGAGGGAGGAGGCAGCGACTCC
TTGGACAGAGGCCTGGGCCCTCAGTGGACTGCCTGCTCCCACAGCCTGGGCTGACGTCAGAGCCGAGGCCAGGA
ACTGAGTGAGGCCCCCTGGTCTTGGGTCTCAGGATGGGTCTGGGGGCTCGTGTTTCATCAAGACACCCCTCTGCC
CAGCTCACCATCTTTCATCACCAGCAAACGCCAGGACTTGGCTCCCCATCCTCAGAACTCACAAGCCATTGCT
CCCCAGCTGGGGAAACCTCAACCTCCCCCTGCCTCGGTTGGTGACAGAGGGGGTGGGACAGGGGCGGGGGTTC
CCCTGTACATACCCTGCCATACCAACCCAGGTATTAATTCTCGCTGGTTTTGTTTTTATTTTAATTTTTTTGTT
TTGATTTTTTTAATAAGAATTTTCATTTTAAGCACATTTATACTGAAGGAATTTGTGCTGTGTATTGGGGGAGC
TGGATCCAGAGCTGGAGGGGGTGGGTCCGGGGGAGGGAGTGGCTCGGAAGGGGCCCCACTCTCCTTTTCATGTCC
CTGTGCCCCCAGTTCTCCTCCTCAGCCTTTTCTCCTCAGTTTTCTCTTTAAACTGTGAAGTACTAACTTTCC
AAGGCCTGCCTTCCCCCTCCCTCCCACTGGAGAAGCCGCCAGCCCCCTTCTCCCTCTGCCTGACCACTGGGTGTGG
ACGGTGTGGGGCAGCCCTGAAAGGACAGGCTCCTGGCCTTGGCACTTGCTGCACCCACCATGAGGCATGGAGCA
GGGCAGAGCAAGGGCCCCGGGACAGAGTTTTCCAGACCTGGCTCCTCGGCAGAGCTGCCTCCCGTCAGGGCCCCA
CATCATCTAGGCTCCCCAGCCCCACTGTGAAGGGGCTGGCCAGGGGCCGAGCTGCCCCACCCCCGGCCTCAG
CCACCAGACCCCCATAGGGCCCCCAGACACCACACATGCGCGTGCGCACACACACAAACACACACACTGG
ACAGTAGATGGGCCGACACACACTTGGCCCGAGTTCTCCATTTCCCTGGCCTGCCCCCACCCTAACCTGTCC
CACCCCCGTGCCCCCTCCTTACCCCGCAGGACGGGCCTACAGGGGGTCTCCCTCACCCCTGCACCCCCAGCTG
GGGGAGCTGGCTCTGCCCCGACCTCCTTACCAGGGGTGGGGCCCCCTCCCTGGAGCCCGTGGGTGCACCTGT
TACTGTTGGGCTTCCACTGAGATCTACTGGATAAAGAATAAAGTTCTATTTATTCT

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FIGURE 4821

MASNSSSCPTPGGGHLNGYPVPPYAFFFPMLGGLSPPGALTTLQHQLPVSGYSTPSPATIETQSSSSEEIVPSP
PSPPLPRIYKPCFVCQDKSSGYHYGVSACEGCKGFFRRSIQKNMVYTCHRDKNCIINKVTRNRCQYCRLOKCFE
VGMSKESVRNDRNKKKKEVPKPECSESYTLTPEVGELIEKVRKAHQETFPALCQLGKYTTNNSSEQRVSLDIDLW
DKFSELSTKCIIKTVEFAKQLPGFTTLTIADQITLLKAACLDILILRICTRYTPEQDTMTFSDGLTLNRTQMHNA
GFGPLTDLVFANQLLPLEMDDAETGLLSAICLICGDRQDLEQPDVRVDMLEPLLEALKVYVRKRRPSRPHMFP
KMLMKITDLRSISAKGAERVITLKMEIPGSMPLIQEMLENSEGLDTLSGQPGGGGRDGGGLAPPPGSCSPSLSP
SSNRSSPATHSP

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FIGURE 4822

GCGCGGCGGGGCATGCTCGGGTGGCGTGGGGGCTGCTGTGGTTGCTGCTGGGCAGCGCCGGGGCGCAGTACGAGA
AGTACAGCTTCCGGGGCTTCCCGCCCGAGGACCTGATGCCGCTGGCCGCGGCGTACGGGCACGCTCTGGAGCAGT
ACGAGGGAGAGAGCTGGCGCGAGAGCGCGCGCTACCTGGAGGCGGCGCTGCGGCTGCACCGGCTCCTGCGCGACA
GCGAGGCCTTCTGCCACGCCAACTGCAGCGGGCCCCGCGCCCGCGGCCAAGCCCGATCCCGACGGCGGCCGCGCAG
ACGAGTGGGCTGCGAGCTGCGGCTCTTCGGCCGCGTCTTGAGCGAGCCGCTGCCTGCGGCGCTGCAAGCGGA
CGCTGCCCCGCTTCCAGGTGCCCTACCCGCCGCGGCAGCTGCTGCGTGACTTCCAGAGCCGCTGCCCTACCAGT
ACCTGCACTACGCGCTGTTCAAGGCTAACCGGCTGGAGAAGGCGGTGGCGGGGCTACACCTTCTCCAGAGGA
ACCCGAAGCACGAGCTGACCGCCAAGTATCTCACTACTATCAGGGGATGCTGGACGTCGCCGACGAGTCCCTCA
CGGACCTAGAGGCCAGCCCTACGAGGCCGTGTTCCCTCCGGGCTGTGAAGCTCTACAACAGCGGGGATTTCGCA
GCAGCACGGAGGACATGGAGCGGGCCTTGTGAGAGTACCTGGCAGTCTTTGCCCGGTGCCTGGCCGGCTGTGAAG
GGGCCCCATGAGCAGGTGGACTTCAAGGACTTCTACCCGGCCATAGCAGATCTCTTTGCAGAGTCCCTGCAGTGCA
AGGTGGACTGTGAGGCCAATTTGACCCCCAATGTGGGTGGCTACTTCTGAGACAAGTTCTGAGGCCACCATGTACC
ACTACCTGCAGTTTGCTTACTATAAGTTGAATGATGTGCGCCAGGCTGCCCGCAGCGCCGCCAGCTACATGCTCT
TCGACCCCAAGGACAGCGTCATGCAGCAGAACCTGGTGTATTACCGGTTCCACCGGGCTCGCTGGGGCCTGGAAG
AGGAGGACTTCCAGCCCCGGGAGGAGGCCATGCTCTACCACAACCAGACCGCCGAGCTGCGGGAGCTGCTGGAGT
TCACCACATGTACCTGCAGTCAGATGATGAGATGGAGCTGGAGGAGACAGAACCGCCCTGGAGCCTGAGGATG
CCCTATCTGACGCCGAGTTTGAGGGGGAGGGTGACTACGAGGAGGGCATGTATGCTGACTGGTGGCAGGAGCCGG
ATGCCAAGGGTGACGAGGCCGAGGCTGAGCCAGAGCCTGAACCTCGCATGAGAAGGGGACACCCACACCGCTCAA
GCTTGGGAAGCCTGGTGGCGATGGCCCCACCCTCACCAGCCTGGGCAGCAGCAAGAAGTATTTATTAATAAATACTTA
AGATGGGCCAGGTGCGGTGGCTCACACCTGTAATCCCAGCATTGTTGGGAGGCCAAGGTGGGTGGATCACTTGAGG
CCAGGAGTTCAAGACCAGCCTGGCCAACATGATGAGACCTCCGTCTCTACTAAAATACATAAATTAGCCGGGTGT
GGTGGCAGGCGCCTGAAATCCCAGCTACTCAAGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGCAAAGGT
TGCGGTGAACTGAGATTGCGCCACCGCACTCCAGCCTGGGCGACAGAGCGAGACTCCATCTTTAAAAAAAACAA
GACGGGCCGGCACGGTGGCTCACGCCTGTAATCCCAGCACTGAGAGGCCGATCACTTGAGGTGAGGAGTTCAAGA
CCTGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAAATACAAAAATTAGCCAGGCATGGTGGCACACACC
TGTAATCGTAGCTGAGGCAGGAGAATCGCCTGAACCCAGGAGGCGGAGCTTGAGTGAGCCGAGATCGTGCCACT
GCACTCCAGCCTGGGCGACAGAGTGAGACTCCATCTCAAAAAAAAAAAAAAAAAAACTTAAGATGGACACAGCTGA
CTGGACCCCCATCCTGCCTCACCCATGGGTGCTGCACCCAGACCCATCCTGCCACTTCTATGTCTCTGGACCAC
AGGATGGTGGTGGCATTGCAGGTTGGCAAGTGGGCTGATGGGGTCCGCCCTCCTCACTGCTGAGCTCCTCACCTG
GACAGTCTCCTGGACAAGGAGTTTCCAGCTGCTGGCTGGAGTCTCAGGCCAAATTGCAGAGGGTCTCCAGGGTC
CTGAAGAGCACTGGACTAAGAGTCTAGTGGTTCCAGGGCCCTGACCAGTAGGTGCTCAATAAATGTTTGTGTTG
AATGAAAAAAAAAAAAAAAAA

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FIGURE 4823

MARVAWGLLWLLLGSAGAQYEKYSFRGFPPEDLMPLAAAYGHALEQYEGESWRESARYLEAALRLHRLLRDSEAF
CHANCSPAPAAKPDGGRADWACELRLFGRVLERAACLRRCKRTLPAFQVPYPPRQLLRDFQSRLPYQYLHY
ALFKANRLEKAVAAAYTFLQRNPKHELTAKYLNYYQGMLDVADESLTDLEAQPYEAVFLRAVKLYNSGDFRSSTE
DMERALSEYLAVFARCLAGCEGAHEQVDFKDFYPAIADLFAESLQCKVDCEANLTPNVGGYFVDKFVATMYHYLO
FAYYKLNDRQAARSAASYMLFDPKDSVMQQNLVYYRFHRARWGLEEEDFQFREEAMLYHNQTAELELLEFTHM
YLQSDDEMELEETEPPLEPEDALSDAEFEGEGDYEEGMYADWWQEPDAKGDEAEAEPEPELA

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FIGURE 4824

TCTTTCGCGGGCACTTCGAATTCTAGTCCCCTCCAGGCAGGAGCCCCGGGCGGACGGAGAGGACTTAACGACACTA
TCGGACCCTCTGGGAAAAGAGGGGAGACGTCGTGACCCAGGCCCCGCCCCACCTTGCCGCCTCGTGCCCCGGCGCT
AAGACCCAGCGGGCGCGCCGCCCGGGGCCCCGGCCCTGTCCCCTTCCGTCCGCGGGGCAGCCAGCTCAGCTC
CGGAGAGCCGGCGGCGCGGCGGGCATGGCTCGGGTGGCGTGGGGGCTGCTGTGGTTGCTGCTGGGCAGCGCCGGG
GCGCAGTACGAGAAGTACAGCTTCCGGGGCTTCCGCCCCGAGGACCTGATGCCGCTGGCCGCGGCGTACGGGCAC
GCTCTGGAGCAGTACGAGGGAGAGAGCTGGCGCGAGAGCGCGCTACCTGGAGGCGGCGCTGCGGCTGCACCGG
CTCCTGCGCGACAGCGAGGCCTTCTGCCACGCCAACTGCAGCGGCCCCG

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FIGURE 4825

AGCTATGATCGCAACACCTTGGTGGCCATCGTGGTGGGTGTGGGGCGCCTCATCACTGGCATGGACCGAGGCCTC
ATGGGCATGTGTGTCAACGAGCGGCGACGCCTCATTGTGCCTCCCCACCTGGGCTATGGGAGCATCGGCCTGGCG
GGGCTCATTCCACGGGATGCCACCCCTCTACTTCGATGTGGTTCTGCTGGATGTGTGGAACAAGGAAGACACCGTG
CAGGTGAGCACATTGCTGCGCCCGCCCCACTGCCCCCGCATGGTCCAGGACGGCGACTTGTCCGCTACCACTAC
AATGGCACCCCTGCTGGACGGCACCTCCTTCGACACCAGCTACAGTAAGGGCGGCACTTATGACACCTACGTCGGC
TCTGGTTGGCTGATCAAGGGCATGGACCAGGGGCTGCTGGGCATGTGTCTCTGGAGAGAGAAGGAAGATTATCATC
CCTCCATTCTGGCCTATGGCGAGAAAGGCTATGGGACAGTGATCCCCCACAGGCCTCGCTGGTCTTTACGTC
CTCCTGATTGACGTGCACAACCCGAAGGACGCTGTCCAGCTAGAGACGCTGGAGCTCCCCCGGCTGTGTCCGC
AGAGCCGGGGCCGGGGACTTCATGCGCTACCACTACAATGGCTCCTTGATGGACGGCACCCCTCTTCGATTCCAGC
TACTCCCGCAACCACACCTACAATACCTATATCGGGCAGGGTTACATCATCCCCGGGATGGACCAGGGGCTGCAG
GGTGCCTGCATGGGGGAACGCCGAGAAATTACCATCCCCCGCACCTCGCCTATGGGGAGAATGGAACCTGGAGAC
AAGATCCCTGGCTCTGCCGTGCTAATCTTCAACGTCCATGTCACTTCCACAACCCCTGCGGATGTGGTGGAA
ATCAGGACACTGTCCCCGCCATCTGAGACCTGCAATGAGACCACCAAGCTTGGGGACTTTGTTTCGATACCATTAC
AACTGTTCTTTGCTGGACGGCACCCAGCTGTTACCTCGCATGACTACGGGGCCCCCAGGAGGCGACTCTCGGG
GCCAACAAGGTGATCGAAGGCCTGGACACGGGCTGCAGGGCATGTGTGTGGGAGAGAGGCGGCAGCTCATCGTG
CCCCCGCACCTGGCCACGGGGAGAGTGGAGCCCGGGGAGTCCAGGCAGTGCTGTGCTGCTGTTTGAGGTGGAG
CTGGTGTCCCGGGAGGATGGGCTGCCACAGGCTACCTGTTTGTGTGGCACAAGGACCCTCCTGCCAACCTGTTT
GAAGACATGGACCTCAACAAGGATGGCGAGGTCCCTCCGGAGGAGTTCTCCACCTTCATCAAGGCTCAAGTGAGT
GAGGGCAAAGGACGCCTCATGCCTGGGCGAGGACCCCTGAGAAAACCATAGGAGACATGTTCCAGAACCAGGACCGC
AACCAGGACGGCAAGATCACAGTCGACGAGCTCAAGCTGAAGTCAGATGAGGACGAGGAGCGGGTCCACGAGGAG
CTCTGAGGGGACAGGAGCCTGGCCAGGCTGAGACACAGAGGCCCACTGCGAGGGGGACAGTGGCGGTGGGACTG
ACCTGCTGACAGTCACCCCTCCCTCTGCTGGGATGAGGTCCAGGAGCCAACTAAAACAATGGCAGAGGAGACATCT
CTGGTGTTCACACCACCTAGATGAAAATCCACAGCACAGACCTCTACCGTGTCTCTCTCCATCCCTAAACCAC
TTCCTTAAAATGTTTGATTGCAAAGCCAATTTGGGGCCTGTGGAGCCTGGGGTTGGATAGGGCCATGGCTGGT
CCCCACCATACTCCCTCCACATCACTGACACAGCTGAGCTTGTTATCCATCTCCCCAACTTTCTCTTTCTT
TGTACTTCTTGTATCCCCACTCCCAGCCCCCTTTCTCTATGTGACAGCTCCCTAGGACCCCTCTGCCTTCCTC
CCCAATCCTGACTGGCTCCTAGGGAAGGGGAAGGCTCCTGGAGGGCAGCCCTACCTCTCCCATGCCCTTTGCCCT
CCTCCCTCGCCTCCAGTGGAGGCTGAGCTGACCCTGGGCTGCTGGAGGCCAGACTGGGCTGTAGTTAGCTTTTCA
TCCCTAAAGAAGGCTCCTTTCCCTAAGGAACCATAGAAGAGAGGAAGAAAACAAAGGGCATGTGTGAGGGAAGCT
GCTTGGGTGGGTGTTAGGGCTATGAAATCTTGATTGTTGGGCTGAGGGGTGGGAGGGAGGGCAGAGCTCTGCACA
CTCAAAGGCTAACTGGTGTGAGTCCTTTTTCTTTGTTCCAAATAAAAGATTAAACC

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FIGURE 4826

GGGATGGCAGAGGAGGTGAGGAGGGAGGAAGCGTCCGGAGTGGGGCGGGCCCGGACTCCGACCCCCGGGGCGCTT
CGAGCCCCCAGCTGGTCACCGAGGCACCGCCGCTTCACCCAGGCCAGTAGCCGCCCCCTCGCGCACCCCGGGCCC
CGCCTCACACGCGCGCCCGAGCGAGCCCCGGGCTCCCTCGGGCCCAGCGTGGCGCAGGGGTCACTGGTTCTCTC
GGGTCTCGGGACAGGTGAGCACCTGATGAAGGCCACGGTCCTGATGCGGCAGCCTGGGCGGGTGCAGGAGATCG
TGGGCGCCCTCCGCAAGGGCGGGGAGACCGGTTACAGGTGATTTCTGATTTTGACATGACCTTGAGCAGGTTTG
CATATAATGGAAGCGATGCCCTTCTTCTTACAATATTCTGGATAATAGCAAGATCATCAGTGAGGAGTGTCCGA
AAGAGCTCACAGCGCTCCTTCACCACTATTACCCAATTGAGATCGACCCACACCGGACCGTCAAGGAGAAGCTAC
CTCATATGGTGGAATGGTGGACCAAAGCACACAATCTCCTATGTCAGCAGAAGATTCAGAAGTTTCAGATAGCCC
AGGIGGTTAGAGAGTCCAATGCAATGCTCAGGGAGGGATATAAGACCTTCTTCAACACACTCTACCATAACAACA
TCCCCCTTTTCATCTTTTCTGCGGGCATTGGTGATATCCTGGAAGAAATTATCCGACAGATGAAAGTGTTCACC
CCAACATCCACATCGTGTCTAACTACATGGATTTTAATGAAGATGGTTTTCTCCAGGGATTTAAGGGCCAGCTCA
TACACACATAACAAGAACAGCTCTGCGTGTGAGAACTCTGGTTACTTCCAGCAACTTGAGGGCAAAACCAATG
TCATCCTGCTGGGAGACTCTATCGGGGACCTCACCATGGCCGATGGGGTTCTGGTGTGCAGAACATTCTCAAAA
TTGGCTTCTGAATGACAAGGTGGAGGAGCGGGCGGGAGCGCTACATGGACTCCTATGACATCGTGTGGAGAAGG
ACGAGACTCTGGATGTGGTCAACGGGCTACTGCAGCACATCCTGTGCCAGGGGTCCAGCTGGAGATGCAAGGCC
CCTGAAGGCGCAGGCTCCAGCCCCGGCTGCAGGCCGTGGTGGAGGGGGCGCCTCCCCAGAGTCTGCTCCCCCGT
GAACACAGAGCAGAGGCCAGGGTGGCCAGCAGTGGCTGGGTCTTCCGCGCCCTCCGTCTCTTTCCCTGAGC
ACCTTCATCACCAGAGGCTTGAAGGAACCCCGCCATGTGGCAGGGCACAGGCACTGTTCTGGTGAACCTTGGAC
CACAGCATGTCAGTGCTCTAGGGATTGTCTACTCCAGGGATTTTCTTCAAATTTTTTAAACATGGGAAGTTCAA
CAAATATAATGTGTGAAACAG

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FIGURE 4827A

CCGGATTTTTCGGGGTTTCGTCGGGCCCTGTGGAAGAAGCGCCGCGCACGGACTTCGGCAGAGGTAGAGCAGGTCTC
TCTGCAGCCATGTTCGGCCAAGGCAATTTTCAGAGCAGACGGGCAAAGAACTCCTTTACAAGTTCATCTGTACCACC
TCAGCCATCCAGAATCGGTTCAAGTATGCTCGGGTCACTCCTGACACAGACTGGGCCCCGCTTGCTGCAGGACCAC
CCCTGGCTGCTCAGCCAGAACTTGGTAGTCAAGCCAGACCAGCTGATCAAACGTCGTGGAAAACTTGGTCTCGTT
GGGGTCAACCTCACTCTGGATGGGGTCAAGTCTTGGCTGAAGCCACGGCTGGGACAGGAAGCCACAGTTGGCAAG
GCCACAGGCTTCCTCAAGAACTTTCTGATCGAGCCCTTCGTCCCCACAGTCAGGCTGAGGAGTTCTATGTCTGC
ATCTATGCCACCCGAGAAGGGGACTACGTCTGTTCACCACGAGGGGGGTGTTGGACGTGGGTGATGTGGACGCC
AAGGCCCAGAAGCTGCTTGTGGCGTGGATGAGAACTGAATCCTGAGGACATCAAAAAACACCTGTTGGTCCAC
GCCCCGTAAGACAAGAAAGAAATTTCTGGCCAGTTTTATCTCCGGCCTCTTCAATTTCTACGAGGACTTGTACTTC
ACCTACCTCGAGATCAATCCCCTTGTAGTGACCAAGATGGAGTCTATGTCTTGACTTGGCGGCCAAGGTGGAC
GCCACTGCCGACTACATCTGCAAAGTGAAGTGGGGTGACATCGAGTTCCCTCCCCCCTTCGGGCGGGAGGCATAT
CCAGAGGAAGCCTACATTGCAGACCTCGATGCCAAAAGTGGGGCAAGCCTGAAGCTGACCTTGCTGAACCCCAA
GGGAGGATCTGGACCATGGTGGCCGGGGGTGGCGCCTCTGTCTGTACAGCGATACCATCTGTGATCTAGGGGGT
GTCAACGAGCTGGCAAACATATGGGGAGTACTCAGGCGCCCCCAGCGAGCAGCAGACCTATGACTATGCCAAGACT
ATCCTCTCCCTCATGACCCGAGAGAAGCACCCAGATGGCAAGATCCTCATCATTGGAGGCAGCATCGCAAACCTC
ACCAACGTGGCTGCCACGTTCAAGGGCATCGTGAGAGCAATTCGAGATTACCAGGGCCCCCTGAAGGAGCACGAA
GTCACAATCTTTGTCCGAAGAGGTGGCCCCAACTATCAGGAGGGCTTACGGGTGATGGGAGAAGTCGGGAAGACC
ACTGGGATCCCCATCCATGTCTTTGGCACAGAGACTCACATGACGGCCATTGTGGGCATGGCCCTGGGCCACCGG
CCCATCCCCAACCCAGCCACCCACAGCGGGCCACACTGCAAACCTCCTCCTCAACGCCAGCGGGAGCACATCGACG
CCAGCCCCCAGCAGGACAGCATCTTTTTCTGAGTCCAGGGCCGATGAGGTGGCGCCTGCAAAGAAGGCCAAGCCT
GCCATGCCACAAGATTAGTCCCAAGTCCAAGATCCCTGCAAGGAAAGAGCACCACCTCTTCAGCCGCCACACC
AAGGCCATTGTGTGGGGCATGCAGACCCGGGCCGTGCAAGGCATGCTGGACTTTGACTATGTCTGCTCCCGAGAC
GAGCCCTCAGTGGCTGCCATGGTCTACCTTTTACTGGGGACCACAAGCAGAAGTTTTACTGGGGGCACAAAGAG
ATCCTGATCCCTGTCTTCAAGAACATGGCTGATGCCATGAGGAAGCATCCGGAGGTAGATGTGCTCATCAACTTT
GCCTCTCTCCGCTCTGCCTATGACAGCACCATGGAGACCATGAACTATGCCCAGATCCGGACCATCGCCATCATA
GCTGAAGGCATCCCTGAGGCCCTCACGAGAAAGCTGATCAAGAAGGCGGACCAGAAGGGAGTGACCATCATCGGA
CCTGCCACTGTTGGAGGCATCAAGCCTGGGTGCTTTAAGATTGGCAACACAGGTGGGATGCTGGACAACATCCTG
GCCTCCAAACTGTACCGCCAGGCAGCGTGGCCTATGTCTCACGTTCCGGAGGCATGTCCAACGAGCTCAACAAT
ATCATCTCTCGGACCACGGATGGCGTCTATGAGGGCGTGGCCATTGGTGGGGACAGGTACCCGGGCTCCACATTC
ATGGATCATGTGTTACGCTATCAGGACACTCCAGGAGTCAAATGATTGTGGTTCTTGGAGAGATTGGGGGCACT
GAGGAATATAAGATTTGCCGGGGCATCAAGGAGGGCCGCTCACTAAGCCCATCGTCTGCTGGTGCATCGGGACG
TGTGCCACCATGTTCTCCTCTGAGGTCCAGTTTGGCCATGCTGGAGCTTGTGCCAACCCAGGCTTCTGAACTGCA
GTAGCCAAGAACCAGGCTTTGAAGGAAGCAGGAGTGTGTTGTGCCCGGAGCTTTGATGAGCTTGAGAGATCATC
CAGTCTGTATACGAAGATCTCGTGGCCAATGGAGTCATTGTACCTGCCAGGAGGTGCCGCCCCCAACCGTGCCC
ATGGACTACTCCTGGGCCAGGGAGCTTGGTTTGATCCGCAAACCTGCCTCGTTTCATGACCAGCATCTGCGATGAG
CGAGGACAGGAGCTCATCTACGCGGGCATGCCCATCACTGAGGTCTTCAAGGAAGAGATGGGCATTGGCGGGGTC
CTCGGCCTCCTCTGGTTCCAGAAAAGGTTGCCTAAGTACTCTTGCCAGTTCATTGAGATGTGTCTGATGGTGACA
GCTGATCACGGGCCAGCCGTCTCTGGAGCCCAACACCATCATTTGTGCGCGAGCTGGGAAAGACCTGGTCTCC
AGCCTCACCTCGGGGCTGCTCACCATCGGGGATCGGTTTGGGGGTGCCTTGGATGCAGCAGCCAAGATGTTTCAGT
AAAGCCTTTGACAGTGGCATTATCCCCATGGAGTTTGTGAACAAGATGAAGAAGGAAGGGAAGCTGATCATGGGC
ATTGGTCACCGAGTGAAGTCGATAAACAACCCAGACATGCGAGTGCAGATCCTCAAAGATTACGTCAGGCAGCAC
TTCCCTGCCACTCCTCTGCTCGATTATGCACCTGGAAGTAGAGAAGATTACCACCTCGAAGAAGCCAAATCTTATC
CTGAATGTAGATGGTCTCATCGGAGTCGCATTTGTAGACATGCTTAGAACTGTGGGTCTTTACTCGGGAGGAA
GCTGATGAATATATTGACATTGGAGCCCTCAATGGCATCTTTGTGCTGGGAAGGAGTATGGGGTTTATTGGACAC
TATCTTGATCAGAAGAGGCTGAAGCAGGGGCTGTATCGTCATCCGTGGGATGATATTTTCATATGTTCTTCCGGAA
CACATGAGCATGTAACAGAGCCAGGAACCTACTGCAGTAACTGAAGACAAGATCTCTTCCCCCAAGAAAAAGT
GTACAGACAGCTGGCAGTGGAGCCTGCTTTATTTAGCAGGGGCTGGAATGTAAACAGCCACTGGGGTACAGGCA
CCGAAGACCAACATCCACAGGCTAACACCCCTTCAGTCCACACAAAGAAGCTTCATATTTTTTTTATAAGCATAG

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FIGURE 4827B

AAATAAAAACCAAGCCAATATTTGTGACTTTGCTCTGCTACCTGCTGTATTTATTATATGGAAGCATCTAAGTAC
TGT CAGGATGGGGTCTTCCTCATTGTAGGGCGTTAGGATGTTGCTTTCTTTTCCATTAGTTAAACATTTTTTTC
TCCTTTGGAGGAAGGGAATGAAACATTTATGGCCTCAAGATACTATAACATTTAAAGCACCCCAATGTCTCTCTTT
TTTTTTTTTACTTCCCTTTCTTCTTCCTTATATAACATGAAGAACATTGTATTAATCTGATTTTTAAAGATCTT
TTTGTATGTTACGTGTTAAGGGCTTGTGGTATCCCACTGAAATGTTCTGTGTTGCAGACCAGAGTCTGTTTAT
GTCAGGGGGATGGGGCCATTGCATCCTTAGCCATTGTCACAAAATATGTGGAGTAGTAACTTAATATGTAAAGTT
GTAACATACATACATTTAAAATGGAAATGCAGAAAGCTGTGAAATGTCTTGTGCTTATGTTCTCTGTATTTATG
CAGCTGATTTGTCTGTCTGTAAGTGAAGTGTGGGTCCAAGGACTCCTAACTACTTTGCATCTGTAATCCACAAAG
ATTCTGGGCAGCTGCCACCTCAGTCTCTTCTCTGTATTATCATAGTCTGGTTTAAATAAACTATATAGTAACA

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FIGURE 4828

MSAKAISEQTGKELLYKFICTTSAIQNRFKYARVTPD TDWARLLQDHPWLLSQNLVVKPDQLIKRRGKLG LVGVN
LTLDGVKSWLKPRLGQ EATVGKATGFLKNFLIEPFFVPHSQAEFFYVCIYATREGDYVLFHHEGGVDVGDVDAKAQ
KLLVGVDEKLN PEDIKKHLLVHAPEDKKEILASFISGLFN FYEDLYFTYLEINPLVVT KDGVYVLDLAAKV DATA
DYICKVKWGDIEFP PPF GREAYPEEAYIADLDAKSGASLKL TLLNPKGRIWTMVAGGGASVVYSDTICDLGGVNE
LANYGEYSGAPSEQQ TYDYAKTILSLMTREKHPDGKILIIGGS IANFTNVAATFKGIVRAIRDYQG PLKEHEVTI
FVRRGGPNYQ EGLRVMGEVGKTTGIP IHVFGTETHMTAIVGMALGHRP IPNQPTAAHTANFLN ASGSTSTPAP
SRTASFSESRADEVAPAKKAKPAMPQDSVSPRSLOGKSTTLFSRHTKAI VWGMQTRAVQGM LDFDYVCSRDEPS
VAAMVYPFTGDHKQKFY WGHKEILIPVFKNMADAMRKHPEVDVLINFASLRSAYDSTMETMNYAQIR TIAIIAEG
IPEALTRKLIK KADQKGVTIIGPATVGGIKPGCFKIGNTGGMLDNILASKLYRPGSVAYVSRSGGMSNELNNIIS
RTTDGVYEGVAIGGDRYPGSTFMDHVLRYQDTPGVKMIVVLGEIGGTEEYKICRGIKEGRLSTPVVCW CIGTCAT
MFSSEVQFGHAGACANQASETAVAKNQALKEAGVFVPRSFDELGEIIQSVYEDLVANGVIVPAQEVPPPTVPM DY
SWARELGLIRKPASFMTSICDERGQELIYAGMPITEVFKEEMGIGGV LGLLWFQKRLPKYSCQFIEMCLMVTADH
GPAVSGAHNTIICARAGKDLVSSLTSGLLTIGDRFXGCLGCS SQDVQ

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FIGURE 4829

GGCTGAGGGGAGGGCCGTTGGCCGGGGCCTGCGGTACGCCGCTTCAGTGAGGGACGCCACTGCGGCCACCCGGCT
TGCTGCCTTCCTGGGCGCCACTCCCCAGGCGACCCGACGCGACGCGCCAGCAGCGCAGCACCATTCTCTCGG
GCTCTTGGGCGCTGCTCTGAGCAGCGTCACCCTTTACACCAGAAAGCTGGCGGGCACTATGGGGAAAAACAAAA
CAAGAAGAAAGTGGAGGAGGTGCTAGAAGAGGAGGAAGAGGAATATGTGGTGGAAAAAGTTCTCGACCGTCGAGT
GGTAAAGGGCAAAGTGGAGTACCTCCTAAAGTGAAGGGATTCTCAGATGAGGACAACACATGGGAGCCAGAAGA
GAACCTGGATTGCCCCGACCTCATTGCTGAGTTTCTGCAGTCACAGAAAACAGCACATGAGACAGATAAATCAGA
GGGAGGCAAGCGCAAAGCTGATTCTGATTCTGAAGATAAGGGAGAGGAGAGCAAACCAAAGAAGAAGAAGA
GTCAGAAAAGCCACGAGGCTTTGCTCGAGGTTTGGAGCCGGAGCGGATTATTGGAGCTACAGACTCCAGTGGAGA
GCTCATGTTCTGATGAAATGGAAAACTCTGATGAGGCTGACCTGGTCCCTGCCAAGGAAGCCAATGTCAAGTG
CCCACAGGTTGTCATATCCTTCTATGAGGAAAGGCTGACGTGGCATTCTACCCCTCGGAGGATGATGACAAAAA
AGATGACAAGAACTAACGCTCCTGAGTACCAGCCCCTGTACATCTGACTGTGGGTTTCAAGTGGGAAGGGAAGG
AGTTCTACTTGTCTTGACACCATAGAGGTGGCTTGAGAAGATGTCTTTGAAGAGCCAGTATAGTTTCTGTGCC
TGCAGCAGCCCCAAGTGCTTTAAAGCCGTTTCAAGCTGTATAGTTTGCACACCCATCCCAGTGGAGGGGAAAGGGG
ATAAGTGTTTCAAGGCAACCTTTTCTGCACTTTGCTGCGAAAAGCAAAGGGCCTTCTATGAAGGACAAAACCTTGC
AGAATTGGGTGTGTGGGAGAGCAAAAAATACTGTAGATCTTCAAAGAGCATCTCCACAACCCACAGCCTTCTTC
CCAATAGTGTTAACTCTGCATTTTACAGCGTAGCATGTGTGTAGTTTTTGGCTATTACTGGTGTATTATTTGGG
GGAGGGAGGGATGGGGAGGGGAGAAAGGGAGATGGGTAGCATCATTTTGATTAAACATTTGGGGCCTGATAGGGGA
AATGGTGAAGCAATGGAAAAGAACAGACAATAATGATTGCTTCTATGTCCAGAATATTTTACCTTTAAAAAAA
TGTCATTGGCACCATAAATAAGGACTGTGAGAGACTGTTTAAAGCTGTGAAAGTCTGAAACCTATAAGCCAAGG
TGTTCCCTGCCTAAACTTATTGCTGTTCCCACAAAGGACTAAGCCTGTTTATAAGTTACCAAAGTTGCCATTTTG
GAGATGAAATTGACGAGGAGGGAAGGTCTTTTATTGGAGAGTATACAGTACAAGCAGATCATTCTGCCTTAGAG
GTGCTAATTCCCGAAATTAGAAGACCCCTTTCTTTTCCAGTAACGAAGTTATAAATATCAGCTTGTTTCATCCAAGC
CACTGGCTGAGGTGTTAGGAAGAGGAAGAGGGTGGTAGAGGAGGTAAGACAGTAGGGAAAGACAAGGGCCCATGC
TCTTAGTGGGGAAACTCTTGGAGCCGTTTACTTTGAGCTTTGAACACTGAAACCATTGTTGGCAGGGTTCAGTC
ACTGACAGCACAAGTTTCACTGAATTGATCCAAGAGTTTAGTGATTTCAAAGCCTTGGTCTCAGGAGAAGATTA
AACTTTTCATATTGGGCAGTGGTTCACTTTAAACACACACATACACACACAAAACAATTTTTTAAGAAATCCTAA
TAAGTAACATACCCAAAATGCTCTGTCTTGAGTCATGAGAACCATCAGTTCTTGATATTGTCTAGACTTGCATCT
AGAGCTACGTTGTAAATTCCTTTTAGGCATGTGTTAGATTTCTGTGTAAACTTTGTTTAAATGTAACTTCATAC
TACATTGTCAGTTTTTGTCTTAATAAACTATAGATTTAT

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FIGURE 4830

CTGAAGCGGAAGTGGAGGAAAGATGGAGGACCATCAGCACGTGCCCATCGACATCCAGACCAGCAAGCTGCTCGA
TTGGCTGGTGGACAGAAGGCACTGCAGCCTGAAATGGCAGAGTCTGGTGCTGACGATCCGCGAGAAGATCAATGC
TGCCATCCAGGACATGCCAGAGAGCGAAGAGATCGCCAGCTGCTGTCTGGGTCTACATTACTACTTTTCACTG
CCTAAGAATCCTGGACCTTCTCAAAGGCACAGAGGCCCTCCACGAAGAATATTTTTGGCCGATACTCTTCACAGCG
GATGAAGGATTGGCAGGAGATTATAGCTCTGTATGAGAAGGACAACACCTACTTAGGTAAAGTGGCCCCGGCTGG
GAGCCCTGGTATCCATGGGGAAGCCACTCTCAGAGTTCTGAGATACCAGGCTTATAGGAGGCACAGTCTGTGAG
TGGGAAGAGACTGGAGTGTAGATGTTGCCATTGTAGGTGGTAAAATCAATTGTTTTTGATGGAATTGATTTTC
CCTGAGTGGAGTGTCTGGGGGAAGGAGGAGTCCAGGCCGGTAGTGGCCATTGCGCGTGCCTCAGCGAGCAGGTGT
GTGTGGGTCTCCACCCTCAGCTCTTGGTTAGCGGGAGTGTGCTGCCCCACCCCCACCCCCGACCCCCATTCT
TACACAAGGCAGAAGAGGCACGGGTTTTCTGGGAGCGAATATCAAGTGCCTGAGAGCAACTACAGGACTAAGTGT
TGTTTTGGGTTGGGTGTAGTATAAATAATAATAGGCTAATATTTCTGAGCATCTACTAAATGCAAGGAATTGT
GCTTGGTGTGTATGTGGATTCTCTCTTGCATCTTCATGATAAATGTTATTGTGCTGTTTTACCGATGAGGGTT
GGATTAGAGGGGTTAAACAACCTTGTCTTAGGCTCCACAGCTGGGAACAAGTGGGGCTGGGAAGCTGACTTCGTGC
TCTTACCACCACAAAGGATGTGTGTGCATCTTGGGGCATGCCTGCCTCATGTGGGGGTGTCTGGGCTGAATTT
CCTGGGCACTTCTCAGTGGAACTCTCTAGCCTCCTGGTTCGGAATGTCAACTATGAGATCCCCTCACTGAAGAAG
CAGATTGCCAAGTGCCAGCAGCTGCAGCAAGAATACAGCCGCAAGGAGGAGTGCAGGCAGGGGCTGCCGAG
ATGCGGGAGCAGTTCTACCACTCCTGCAAGCAGTATGGCATCACGGGCGAAAATGTCCGAGGAGAAGTGTGGCC
CTGGTGAAGGACCTGCCGAGTCAGCTGGCTGAGATTGGGGCAGCGGCTCAGCAGTCCCTGGGGGAAGCCATTGAC
GTGTACCAGGCGTCTGTGGGGTTTGTGTGTGAGAGCCCCACAGAGCAGGTGTTGCCAATGCTGCGGTTCTGTGAC
AAGCGGGGAACTCAACGGTGTACGAGTGGAGGACAGGGACAGAGCCCTCTGTGGTGGAAACGACCCACCTCGAG
GAGCTTCTGAGCAGGTGGCAGAAGATGCGATTGACTGGGGCGACTTTGGGGTAGAGGCAGTGTCTGAGGGGACT
GACTCTGGCATCTCTGCCGAGGCTGCTGGAATCGACTGGGGCATCTTCCCGGAATCAGATTCAAAGGATCCTGGA
GGTGATGGGATAGACTGGGGAGACGATGCTGTTGCTTTGCAGATCACAGTGTGGAAGCAGGAACCCAGGCTCCA
GAAGGTGTTGCCAGGGGCCCAGATGCCCTGACACTGCTTGAATACACTGAGACCCGGAATCAGTTTCTTGATGAG
CTCATGGAGCTTGAGATCTTCTTAGCCCAGAGAGCAGTGGAGTTGAGTGAGGAGGCAGATGTCCTGTCTGTGAGC
CAGTTCCAGCTGGCTCCAGCCATCCTGCAGGGCCAGACCAAAGAGAAGATGGTTACCATGGTGTGAGTGTGGAG
GATCTGATTGGCAAGCTTACCAGTCTTCAGCTGCAACACCTGTTTATGATCCTGGCCTACCAAGGTATGTGGAC
CGAGTGACTGAATTCCTCCAGCAAAAGCTGAAGCAGTCCAGCTGCTGGCTTTGAAGAAAGAGCTGATGGTGCAG
AAGCAGCAGGAGGCATTGAGGAGCAGGCGGCTCTGGAGCCTAAGCTGGACCTGCTACTGGAGAAGACCAAGGAG
CTGCAGAAAGCTGATTGAAGCTGACATCTCCAAGAGGTACAGCGGGCGCCCTGTGAACCTGATGGGAACCTCTCTG
TGACACCTCCGTGTTCTTGCCCTGCCATCTTCTCCGCTTTTGGGATGAAGATGATAGCCAGGGCTGTTGTTTTG
GGCCCTTTCAAGGCAAAAGACCAGGCTGACTGGAAGATGGAAAGCCACAGGAAGGAAGCGGCACCTGATGGTGAT
CTTGGCACTCTCCATGTTCTCTACAAGAAGCTGTGGTATTGGCCCTGTGGTCTACCAGGCGAAAACACAGATT
CTCCTTCTAGTTAGTATAGCGACTTAATAAAAGAGGAAAAACAAAAAAAAAAAAAAAAAAAA

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FIGURE 4831

MCVHPGACLP HVGVSWAEFPGHFSVELSSLLVRNVN YEIPSLKKQIAKCOQLQQEYSRKEEECQAGAAEMREQFY
HSCKQYGITGENVRGELLALVKDLPSQLAEIGAAAQQSLGEAIDVYQASVGFVCESPT EQVLPMLRFVQKRGNST
VYEWRTGTEPSVVERPHLEELPEQVAEDAIDWGDFGVEAVSEGTD SGISAEAAGIDWGIFPESDSKDPGGDGIDW
GDDAVALQITVLEAGTQAPEGVARGPDALT LLEYTETRNOFLDELMELEIFLAQRAVELSEEADVLSVSQFQLAP
AILQGQTKEKMVTMVS VLEDLIGKLTSLQLQHLMILASPRYVDRVTEFLQQK LKQSOLLALKKELMVQKQOEAL
EEQAAL EPKDLLLEKTKELQKLI EADISKRYSGRPVNLMGTSL

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FIGURE 4832

GAAGAGGGTTCGGGTATCTGGGCATGCGCAGGGCCGCGAGGACTCTTGGTGGGGTAGCGAGGGGGACGGTCCCACGA
CTGCTCCGAAGGGCCGGGACTCCCAGTGGGGGCGGGACCCCGGAGTGCCCGCCTGCGGACTCCCAAGCCTGGAG
CCTGGGGAGAGGGTGGGCACCTCCGTTCCCGCACACCCGTCCATGGTGTGTGCGCCGAGCGTCCAGGAGCCACGG
CGGTGTCTTCCCTTGC CGTCTTTTACACGTGTGGGGGTAGGCTGCTCCTCGGGGCTGAGCCGTGGCCAGGGTTAT
GGAGAGGCCCCGCTCTCCCCAGATGGCGTCGTCGAGCCCTGACTCCCCATGTTCTGCGACTGCTTTGTCTCCGT
GCCCCCGGCCTCAGCCATCCCGGCTGTGATCTTTGCCAAGAAGCTCGGACCGACCCCGGGACGAGGTGCAGGAGGT
GGTGTGTTGTCCCCGAGGCACTCACACTCCTGGGAGCCGGCTCCAGTGCACCTACATTGAAGTGGAAACAGGTGTC
GAAGACGCACGCTGTGATTCTGAGCCGTCTTCTTGGCTATGGGGGGCTGAGATGGGCGCCAACGAGCATGGTGT
CTGCATTGGCAACGAGGCTGTGTGGACGAAGGAGCCAGTTGGGGAGGGGGAAGCCCTGCTGGGCATGGACCTACT
CAGGCTGGCTTTTGAACGGAGCAGCTCTGCCAGGAGGCCCTTGATGTGATCACAGGGTTACTGGAGCACTATGG
GCAGGGGGGCAACTGCCTGGAGGATGCTGCGCCATTCTCCTACCATAGCACCTTCCTGCTGGCTGACCGCACTGA
GGCGTGGGTGCTGGAGACAGCTGGGAGGCTCTGGGCTGCACAGAGGATCCAGGAGGGGGCCCGCAACATCTCCAA
CCAGCTGAGCATTGGCACGGACATCTCGGCCCAACACCCGGAGCTGCGGACTCATGCCCAGGCCAAGGGCTGGTG
GGATGGGCAGGGTGCCTTTGACTTTGCTCAGATCTTCTCCCTGACCCAGCAGCCTGTGCGCATGGAGGCTGCCAA
GGCCCGCTTCCAGGCAGGGCGGGAGCTGCTGCGGCAACGGCAAGGGGGCATCACGGCAGAGGTGATGATGGGCAT
CCTCAGAGACAAGGAGAGTGGTATCTGTATGGACTCGGGAGGCTTTCGCACCACGGCCAGCATGGTGTCTGTCT
GCCCCAGGATCCACGCAGCCCTGCGTGCATTTCTTACCGCCACGCCAGACCCATCCAGGTCTGTGTTCAAACC
TTTCATCTTCGGGATGGGGGTGGCCAGGCCCCCAGGTGCTGTCCCCCACTTTTGGAGCACAAGACCCTGTTTCG
GACCCTGCCCCGATTCCAGACTCAGGTAGATCGTCGGCATAACCCTCTACCGTGGACACCAGGCAGCCCTGGGGCT
GATGGAGAGAGATCAGGATCGGGGGCAGCAGCTCCAGCAGAAACAGCAGGATCTGGAGCAGGAAGGCCTCGAGGC
CACACAGGGGCTGCTGGCCGGCGAGTGGGCCCCACCCCTCTGGGAGCTGGGCAGCCTCTTCCAGGCCTTCGTGAA
GAGGGAGAGCCAGGCTTATGCGTAAGCTTCATAGCTTCTGCTGGCCTGGGGTGGACCCAGGACCCCTGGGGCCTG
GGTGCCCTGAGTGGTGGTAAAGTGGAGCAATCCCTTCACGCTCCTTGGCCATGTTCTGAGCGGCCAGCTTGGCCT
TTGCCTTAATAAATGTGCTTTATTTTC

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FIGURE 4833

MASSSPDSPCSCDCFVSVPASAIPIAVIFAKNSDRPRDEVQEVVFPAGTHTPGSRLOCTYIEVEQVSKTHAVIL
SRPSWLWGAEMGANEHGVCIGNEAVWTKEPVGEALLGMDLLRLALERSSSAQEALHVITGLLEHYGGNCLE
DAAPFSYHSTFLLADRTEAWVLETAGRLWAAQRIQEGARNISNQLSIGTDISAQHPELRTHAQAKGWDGQGAFD
FAQIFSLTQQPVMEAAKARFQAGRELLRQRQGGITAEVMMGILRDKESGICMDSGGFRRTASMVSVLPQDPTQP
CVHFLTATPDPSRSVFKPFIIFGMGVAQAPQVLSPTFGAQDPVRTLPRFQTQVDRRHTLYRGHQAALGLMERDQDR
GQQLQKQDLEQEGLEATQGLLAGEWAPPLWELGSLFQAFVKRESQAYA

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FIGURE 4834

TCTCCCTCCGCTCCCGAGCACCAGCGCGCTCTGAGCTGCCCCAGGGTCCCTCCCCCGCCGCCAGCAGCCCAT
TGGAGGGAGGAAGTAAGGGAAGAGGAGAGGAAGGGGAGCCGGACCGACTACCCAGACAGAGCCGGTGAATGGGTT
TGTGGTGACCCCCGCCCCCACCACCCCTCCCTTCCCACCCGACCCCCAACCCCATCCCCAGTTTCGAGCCGCC
GCCGAAAGGCCGGGCGCTCGTCTTAGGAGGAGTCCGCGCCGCCACCTCCGCCATGGAGCTGATCACCATT
TCGAGAAGACCGTGTCTCCCGATCGGCTGGAGCTGGAAGCGGCGCAGAAGTTCCTGGAGCGTGCGGCCGTGGAGA
ACCTGCCCACCTTCTTGTGGAACGTCCAGAGTGTGGCAAATCCAGGAAACAGTCAGGTTGCCAGAGTTGCAG
CTGGTCTACAAATCAAGAACTCTTTGACATCTAAAGATCCAGATATCAAGGCACAATATCAGCAGAGGTGGCTTG
CTATTGATGCTAATGCTCGACGAGAAGTCAAGAACTATGTTTTGCAGACATTGGGTACAGAACTTACCGGCCTA
GTTCTGCCTCACAGTGTGTGGCTGGTATTGCTTGTGCAGAGATCCCAGTAAACCAGTGGCCAGAATCATTCTC
AGCTGGTGGCCAAATGTCACAAACCCCAACAGCACAGAGCACATGAAGGAGTGCACATTGGAAGCCATCGGTTATA
TTTGCCAAGATATAGACCCAGAGCAGCTACAAGATAAATCCAATGAGATTCTGACTGCCATAATCCAGGGGATGA
GGAAAGAAGAGCCTAGTAATAATGTGAAGCTAGCTGCTACGAATGCACTCCTGAACTCATTGGAGTTACCAAAG
CAAACCTTTGATAAAGAGTCTGAAAGGCACCTTTATTATGCAGGTGGTCTGTGAAGCCACACAGTGTCCAGATACGA
GGGTACGAGTGGCTGCTTTACAGAAATCTGGTGAAGATAATGTCCTTATATTATCAGTACATGGAGACATATATGG
GTCCTGCTCTTTTTGCAATCACAAATCGAAGCAATGAAAAGTGACATTGATGAGGTGGCTTTACAAGGGATAGAAT
TCTGGTCCAATGTCTGTGATGAGGAAATGGATTGGCCATTGAAGCTTCAGAGGCAGCAGAACAAGGACGGCCCC
CTGAGCACACCAGCAAGTTTTATGCGAAGGGAGCACTACAGTATCTGGTTCCAATCCTCACACAGACACTAACTA
AACAGGACGAAAATGATGATGACGATGACTGGAACCCCTGCAAAGCAGCAGGGGTGTGCCTCATGCTTCTGGCCA
CCTGCTGTGAAGATGACATTGTCCCACATGTCTCCCTTCATTAAAGAACACATCAAGAACCCAGATTGGCGGT
ACCGGGATGCAGCAGTGTGGCTTTTGGTTGTATCTTGAAGGACCAGAGCCAGTCAGCTCAAACCACTAGTTA
TACAGGCTATGCCCACCCTAATAGAATTAATGAAAGACCCAGTGTAGTTGTTCCAGATACAGCTGCATGGACTG
TAGGCAGAATTTGTGAGCTGCTTCTGAAAGCTGCCATCAATGATGCTACTTGGCTCCCTGCTACAGTGTCTGA
TTGAGGGTCTCAGTGTGAACCCAGAGTGGCTTCAAATGTGTGCTGGGCTTTCTCCAGTCTGGCTGAAGCTGCTT
ATGAAGCTGCAGACGTTGCTGATGATCAGGAAGAACCAGCTACTTACTGCTTATCTTCTTCATTGAACTCATAG
TTCAGAAGCTCCTAGAGACTACAGACAGACCTGATGGACACCAGAACAACCTGAGGAGTTCTGCATATGAATCTC
TGATGGAAATTGTGAAAAACAGTGCCAAGGATTGTTATCCTGCTGTCCAGAAAACGACTTTGGTTCATCATGGAAC
GACTGCAACAGGTTCTTCAGATGGAGTCACATATCCAGAGCACATCCGATAGAATCCAGTTCAATGACCTTCAGT
CTTTACTCTGTGCAACTCTTCAGAATGTTCTTCGGAAGTGCAACATCAAGATGCTTTGCAGATCTCTGATGTGG
TTATGGCCTCCCTGTTAAGGATGTTCCAAAGCACAGCTGGGTCTGGGGGAGTACAAGAGGATGCCCTGATGGCAG
TTAGCACACTGGTGAAGTGTGGGTGGTGAATTCCTCAAGTACATGGAGGCCTTTAAACCCTTCTGGGCATTG
GATTAAAAAATTATGCTGAATACCAGGTTTGTGGCAGCTGTGGGCTTAGTGGGAGACTTGTGCCGTGCCCTGC
AATCCAACATCATACCTTTCTGTGACGAGGTGATGCAGCTGCTTCTGGAATAATTGGGGAATGAGAAGCTCCACA
GGTCTGTGAAGCCGAGATTCTGTGAGTGTGGTGTATTTGCCCTTGCTATTGGAGGAGAGTTAAAAAATACT
TAGAGGTTGTATTGAATACTCTTCAGCAGGCCTCCCAAGCCAGGTGGACAAGTCAGACTATGACATGGTGGATT
ATCTGAATGAGCTAAGGGAAAGCTGCTTGAAGCCTATACTGGAATCGTCCAGGGATTAAAGGGGGATCAGGAGA
ACGTACACCCGGATGTGATGCTGGTACAACCCAGAGTAGAATTTATTCTGTCTTTCATTGACCACATTGCTGGAG
ATGAGGATCACACAGATGGAGTAGTAGCTTGTGCTGCTGGACTAATAGGGGACTTATGTACAGCATTTGGGAAGG
ATGTACTGAAATTAGTAGAAGCTAGGCCAATGATCCATGAATTGTTAACTGAAGGGCGGAGATCGAAGACTAACA
AAGCAAAAACCTTGCTACATGGGCAACAAAAGAACTGAGGAACTGAAGAACCAAGCTTGATCTGTTACCATTG
GGATGATAACCTGAGGACCCCCACTGGAATCTCCCATCTTTTGA AAAACCTGGAAGTGAGGAGTGTGCACGGAT
GCTGAATGTTTGGGAATGAGAGGATGAGTGAGTGAGGCTTGAAAACACACCACATTGAAAATCCTGCCACAGCAG
CAGCCGCAGCCGCCAACAGCAGCGCTGTTAGTGAGCTAAGTAAGCACTGACTTCGTAGAAAACCATAACATCGGC
CATCTTGAAAAAGAGAAAAACAATGGAGTTACTTATTTAAAAA AAAAAAAAAAAAAA

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FIGURE 4835

MELITILEKTVSPDRLELEAAQKFLERA AVENLPTFLVELSRVLANPGNSQVARVAAGLQIKNSLTSKDPDIKAQ
YQQRWLAI DANARREVKNYVLQTLGTETYPSSASQCVAGIACAEIPVNQWPELIPQLVANVTNPNSTEHMKEST
LEAIGYICQDIDPEQLQDKSNEILTAI IQGMRKEEPSNNVKLAATNALLNSLEFTKANFDKESERHFIMQVVCEA
TQCPDTRVRVAALQNLVKIMSLYYQYMETYMGPALFAITIEAMKSDIDEVALQGIEFWSNVCDEEMDLAIEASEA
AEQGRPPEHTSKFYAKGALQYLVPILTQTLTKQDENDDDDWNPCAAAGVCLMMLLATCCEDDIVPHVLPFIKEHI
KNPDWRYRDAAVMAFGCILEGPEPSQLKPLVIQAMPTLIELMKDPSVVVRDTAAWTVGRICELLPEAAINDVYLA
PLLQCLIEGLSAEPRVASNVCWAFSSLAEAA YEADVADDQEEPATYCLSSSFELIVQKLETTDRPDGHQNNLR
SSAYESLMEIVKNSAKDCYP AVQKTTLVIMERLQQVLQ MESH IQSTSDRIQFNDLQSLLCATLQNVLRKVQHODA
LQISDVVMASLLRMFQSTAGSGGVQEDALMAVSTLVEVLGG EFLKYMEAFKPF LGIGLKNYAEYQVCLA AVGLVG
DLCRALQSNIIPFCDEVMQLLENLGNENVHRSVKPQILSVFGDIALAIGGEFKKYLEVVLNTLQQASQAQVDKS
DYDMVDYLNELRESCLEAYTGIVQGLKGDQENVHPDVMLVQPRVEFILSFIDHIAGDEDHTDGVVACAAGLIGDL
CTAFGKDV LKLVEARPMIHELLTEGRRSKTNKAKTLATWATKELRKLKNQA

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FIGURE 4836

CCCTCCCCCTCCGCCCCCTTCCCCGTAGGCAGCCCGCCCGCCAGTCCGCCCCGACCGCCTCCTTCCCAGCCCCCTAG
CGCTCCGGCTGGGTCTCTCCCCGCCCCCAGGCTCCCCCGGTGCTCTCCTCCGGCGGTGCGCCGCGCTCGGTG
GATGTGGCTGGCAGCTGCCGCCCCCTCCCTCGCTCGCCGCTGCTCTTCTCGGCCCTCCGCCTCCTCCCCCTCCT
CCTTCTCGTCTTCAGCCGCTCCTCTCGCCGCGCCTCCACAGCCTTGGCCCTCGCCGCGATGCCGGAGAAGAGGCC
CTTCGAGCGGCTGCCTGCCGATGTCTCCCCATCAACTACAGCCTTTGCCTCAAGCCCGACTTGCTGGACTTCAC
CTTCGAGGGCAAGCTGGAGGCCGCCGCCAGGTGAGGCAGGCGACTAATCAGATTGTGATGAATTGTGCTGATAT
TGATATTATTACAGCTTCATATGCACCAGAAGGAGATGAAGAAATACATGCTACAGGATTTAACTATCAGAATGA
AGATGAAAAAGTCACCTTGCTTTCCCTAGTACTCTGCAAACAGGTACGGGAACCTTAAAGATAGATTTTGTGG
AGAGCTGAATGACAAAATGAAAGGTTTCTATAGAAGTAAATATACTACCCCTTCTGGAGAGGTGCGCTATGCTGC
TGTAACACAGTTTGAGGCTACTGATGCCCCGAAGGGCTTTTCTTGCTGGGATGAGCCTGCTATCAAAGCAACTTT
TGATATCTCATTGGTTGTTCCCTAAAGACAGAGTAGCTTTATCAAACATGAATGTAATTGACCGGAAACCATACCC
TGATGATGAAAATTTAGTGGAAGTGAAGTTTGCCCGCACACCTGTTATGTCTACATATCTGGTGGCATTGTTGT
GGGTGAATATGACTTTGTAGAAACAAGGTCAAAGATGGTGTGTGTGTCGGTGTTCACCTCCTGTTGGCAAAGC
AGAGCAAGGAAAATTTGCGTTAGAGTTGCTGCTAAACCTTGCCTTTTTATAAGGACTACTTCAATGTTTCCTTA
TCCTCTACCTAAAATTGATCTCATTGCTATTGCAGACTTGCAGCTGGTGCCATGGAGAACTGGGGCCTTGTTAC
TTATAGGGAGACTGCATTGCTTATTGATCCAAAAAATTCCTGTTCTTCATCCCGCCAGTGGGTGCTCTGTTGT
GGGACATGAACTCGCCCATCAATGGTTTGGAATCTTGTTACTATGGAATGGTGGACTCATCTTTGGTTAAATGA
AGGTTTTGCATCCTGGATTGAATATCTGTGTGTAGACCACTGCTTCCAGAGTATGATATTTGGACTCAGTTTGT
TTCTGCTGATTACACCCGTGCCAGGAGCTTGACGCCTTAGATAACAGCCATCCTATTGAAGTCAGTGTGGGCCA
TCCATCTGAGGTTGATGAGATATTTGATGCTATATCATATAGCAAAGGTGCATCTGTCTATCCGAATGCTGCATGA
CTACATTGGGGATAAGGACTTTAAGAAAGGAATGAACATGTATTTAACCAAGTTCCAACAAAAGAATGCTGCCAC
AGGTAATCTCTTAATAGCTTGAGATAGAAATGGAGAGAAAGTATTGTCACCTATCCAGGCTGGGACATTTTATT
TTGTTCTGAATACTTAAGGTCAGGATCCATGTAATAAATAAATTAGCCTTATTG

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FIGURE 4837

MWLAAAAPSLARRLLFLGPPPPPLLLLVSRRSRRRLHSLGLAAMPEKRPFERLPADVSPINCSLCLKPDLLDFT
FEGKLEAAAQVRQATNQIVMNCADIDIITASYAPEGDEEIHATGFNYQNEDEKVTLSFPSTLQTGTGTLKIDFVG
ELNDKMKGFYRSKYTTSPSGEVRYAAVTQFEATDARRAFPCWDERAIKATFDISLVVPKDRVALSNMNVIDRKPY
DDENLVEVKFARTPVTSTYLVAFFVGEYDFVETRSDGVCVCVYTPVGKAEQGFALVAAKTLFPYKDYFNVPY
PLPKIDLIAIADFAAGAMENWDLVTYRETALLIDPKNSCSSSRQWVALVVGHELAHQWFGNLVTMEWWTHRLNE
GFASWIEYLCVDHCFPEYDIWTQFVSADYTRAQELDALDNSHPIEVSVGHPSEVDEIFDAISYSGASVIRMLHD
YIGDKDFKKGMNMYLTKFQQKNAAAGNL

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FIGURE 4838

CGCCCGGGCAGGTCTCCCGGAAGTGGCCGGTCCAGAGCTGTGGGGTGCCTCCGCGCGGTCTCTGGCGGATCGGGG
AATCGGATCAAGGCGAGAGGATCCGGCAGGGAAGGAGCTTCGGGGCCGGGGTTGGGCCGCACATTTACGTGCGC
GAAGCGGAGTGGACCGGGAGCTGGTGACGATCGCGGGGCCGAGCCCCCTGGCGCTGCAACTGGAACAGTTGTTGA
ACCCGCGACCAAGCGAGGCGGACCCTGAAGCGGACCCCGAGGAAGCCACTGCTGCCAGGGTGATTGACAGGTTTG
ATGAAGGGGAAGATGGGGAAGGTGATTTCTAGTAGTGGGTAGCATTAGAAAAGTGGCATCAGCCTCCCTCTTGG
ACACGGACAAAAGGTATTGCGGCAAAACCACCTCTAGAAAAGCATGGAATGAAGACCATTGGGAGCAGACTCTGC
CAGGATCGTCTGATGAGGAAATATCTGATGAGGAAGGGTCTGGAGATGAAGATTCAGAGGGACTGGGTCTGGAGG
AATATGATGAGGACGACCTGGGTGCTGCTGAGGAACAGGAGTGTGGTGATCACAGGGAGAGCAAGAAGAGCAGAA
GCCACTCTGCAAAAACACCGGGCTTCAGTGTCAGAGTATCAGTGACTTTGAGAAATTTACCAAGGGAATGGATG
ACCTTGGGAGCAGTGAGGAGGAGGAAGACGAAGAGAGTGGCATGGAAGAAGGGGATGACGCGGAAGACTCCCAAG
GCGAGAGTGAGGAAGACAGGGCTGGAGATAGAAACAGTGAGGATGATGGTGTGGTGATGACCTTCTCTAGTGTC
AAGTTTCTGAGGAAGTGGAGAAAGGAAGAGCCGTGAAGAACCAGATAGCACTGTGGGACCAGCTCTTGGAAGGAA
GGATCAAACTACAAAAAGCTCTGTTGACCACCAACCAGCTTCCTCAACCAGATGTTTTCCATTGTTCAAGGACA
AAGGTGGCCCAAGATTTTCCAGTGCCCTGAAAAATAGTCACAAGGCACTTAAAGCATTGTTGAGGTCAATGGTAG
GTCTTCAGGAAGAGTTGCTTTTCCAGTACCCAGACACTAGATATCTAGTAGATGGGACAAAGCCCAATGCGGGAA
GTGAGGAGATTTCTAGTGAAGATGATGAGCTGGTAGAAGAGAAGAAGCAGCAACGAAGAAGGTCCCTGCAAGA
GGAAGCTGGAGATGGAGGACTATCCAGCTTCATGGCAAAGCGCTTTGCCGACTTTACAGTCTACAGGAACCGCA
CACTTCAGAAATGGCACGATAAGACCAAACTGGCTTCTGGAAGAACTGGGGAAGGGTTTTGGTGCCTTTGAACGCT
CAATCTTGACTCAGATCGACCATATTCTGATGGACAAAGAGAGATTACTTCGAAGGACACAGACCAAGCGCTCTG
TCTATCGAGTTCTTGGCAAACCTGAGCCAGCAGCTCAGCCTGTCCCAGAGAGTTTGCCAGGGGAACCGGAGATCC
TTCCTCAAGCCCCCTGCTAATGCTCATCTGAAGGACTTGATGAAGAAATCTTTGATGATGATGACTTTTACCACC
AGCTCCTTCGAGAACTCATAGAACGGAAGACCAGCTCCTTGGATCCCAACGATCAGGTGGCCATGGGAAGGCAGT
GGCTTGCAATCCAGAAGTTACGAAGCAAAATCCACAAAAAAGTAGATAGGAAAGCCAGCAAAGGCAGGAACTTC
GGTTTCATGTCCTTAGCAAGCTACTGAGTTTCATGGCACCTATTGACCATACTACAATGAATGATGATGCCAGGA
CAGAACTGTACCGCTCTCTTTTGGCCAGCTCCACCCTCCCGACGAAGGCCACGGGGATTGACATCGCCACCTC
CGACACCCAGTGGGCGCCTTGGCTGGTGCGGTGCTGGTCCAGATGGAGGAAACCAGTGACTTTATGGGGCTGAG
CTAGTAGGGAAGCCCCCTGGAAAGATGCTGCGTTCCGAACCTGTGCCTAATACACGCAAGGGCGCTGTCCCGCCCA
ACCCCGCCTTTAAACGCCACAAATAAAGAGCATTGTTACCGCCAAAAA

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FIGURE 4839

MAGPQPLALQLEQLLNPRPSEADPEADPEEATAARVIDRFDEGEDGEGDFLVVGSIRKLASASLLD TDKRYCGKT
TSRKAWNEDHWEQTLPGSSDEEISDEEGSGDEDSEGLGLEEYDEDDLGAEEQECGDHRESKKSRSHTSAKTPGFS
VQSI SDFEKF TKGMDDLGSSEEEDEESGMEEGDDAEDSQGESEEDRAGDRNSED DGVMTFSSVKVSEEEVEKGR
AVKNQIALWDQLLEGRIKLQKALLTTNQLPQPDVFFPLFKDKGGPEFSSALKNSHKALKALLRSLVGLQEELLFQY
PDTRYLVDGTPNAGSEEISSEDELVEEKKQORRRVPAKRKLEMEDYPSFMAKRFADFTVYRNRTLQKWHDKTK
LASGKLKGFGAFERSILTQIDHILMDKERLLRRTQTKRSVYRVLGKPEPAAQPVPESLPGEPEILPQAPANAH
KDLDEEIFDDDDFYHQLLRELIERKTSSLDPNQVAMGRQWLAIQKLRSKIHKKVDRKASKGRKLRFHVLSKLLS
FMAPIDHTTMNDDARTELYRSLFGQLHPPDEGHGD

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FIGURE 4840

CTTCCCGCCGCTGACCTGGCCCGCCGCTTTCCAGTCTGGCCGGGCGGGCCTGAAGCACGGCGCTCGGGCGT
GGGACCGTGTTTACACCCCTTTCCAGAAATTCTTGGCTGGTAACCGCGAAACCGACTGGAGCAGGAGCTGGGAGAA
CTGGAGAAAACCTGCTCTAATCTCACTTGACTCCAGCTAGGAGCTGATGCTGCATCGTAATAACATTTGCAGAGCG
CTTTCACAGGCGCTGGAGTGACTTGTCTGAGATTCTCCAGAACTGAGCCCTTTGTTGGAACCATACCCAGCCC
ATGGTCCCATGACTAGGTGGATAGTACTCTTGTACCTCCTGCAACCCAGAACCCTGGCTGACCACCTTTGAAGGA
GGATGCTCCAGCAGGTCAATGGCCACAATCCGGGGTCTGATGGCCAAGCCAGGGAGTACCTCAGAGAAGACCTGC
AGGAGTTCCTGGGTGGGAGGTCTGCTGTACAACTGGATGACCTCACCAGGGTGAATCCTGTGACACTAGAGA
CAGTCTGAGGTGCCTGCAGGCCCGGTACATGGCAGACACATTCTACACCAATGCTGGCTGCACCCTGGTAGCCT
TGAACCCCTTCAAGCCTGTTCTCAGCTCTACTCGCCCCGAGCTAATGAGAGAGTACCATGCTGCGCCTCAGCCCC
AGAAACTGAAGCCCCATGTGTTCACTGTGGGTGAACAGACCTACAGGAATGTCAAGAGCCTGATTGAACCAGTCA
ACCAGTCTATTGTTGTGCTGAGTGGAGAGAGTGGTGTGGAAGACATGGACGTCTCGCTGCCTAATGAAGTTCTATG
CTGTGGTGGCCACCTCACCTGCATCTTGGGAGAGCCACAAGATTGCAGAGAGGATAGAACAGAGGATCCTGAACT
CCAACCTGTCAATGGAAGCTTTTGGGAATGCGTGTACACTGAGGAATAACAACAGCAGTCGCTTTGGGAAGTTCA
TCCAGCTCCAGCTGAACAGGGCTCAGCAAATGACTGGAGCCGAGTCCAGACCTACCTCCTAGAGAAAACCTCGAG
TGGCCTGCCAGGCTTCCAGTGAGAGGAACCTCCACATCTTCTATCAGATTTGCAAAGGAGCCAGTGAGGACGAGA
GGCTCCAGTGCCACCTTCTGAGGGAGCTGCCTTCTCCTGGCTGCCCAACCCAGAGAGGAGCTTAGAAGAGGATT
GTTTTGAGGTGACCAGAGAGGCCATGCTCCATTGGGCATTGACACCCCTACCCAGAACAACATCTTTAAGGTCC
TAGCTGGACTGCTGCACCTTGGCAATATCCAGTTTGTGCTGCCTCCGAGGATGAAGCCAGCCCTGCCAGCCGATGG
ATGATGCCAAGTACTCTGTGACGAGCGCAGCCTCGCTGCTGGGGCTCCAGAGGACGTGCTGCTGGAGATGGTGC
AGATTAGAACCATCAGGGCAGGCAGACAGCAGCAGGTGTTCCGGAAGCCCTGCGCCCGAGCCGAGTGTGACACCC
GTAGAGACTGCCTGGCCAACTGATCTATGCGCGGTTGTTTACTGGCTGGTATCAGTGATCAACAGCAGCATCT
GTGCAGACACCGACTCGTGGACCACTTTCATAGGCCTGCTGGATGTGTATGGATTTGAATCATTTCTGACAACA
GTCTGGAACAGTTGTGCATCAACTACGCCAATGAGAAGCTGCAGCTGGAGGCCTGTGGCCTCGTGGAGACCATCC
ATATCAGTGTGCTGGCTTCCCCATCCGGGTCTCTACCCGAACTTTGTAGAACGATACAAGTTACTAAGAAGGC
TTCATCCTTGCACATCCTCTGGCCCCGACAGCCCATATCCTGCCAAAGGGCTCCCTGAATGGTGTCCACACAGCG
AGGAAGCCACGCTTGAACCTCTCATCCAGGACATTCTCCACACTCTGCCGGTCTTAACCTCAGGCAGCAGCCATAA
CTGGTGACTCGGCTGAGGCCATGCCAGCCCCCATGCACTGTGGCAGGACCAAGGTGTTTCACTGACTGACTCTATGC
TGGAGCTTCTGGAATGTGGGCGTGCCCGGTGCTGGAGCAGTGTGCCCGCTGCATCCAGGGTGGCTGGAGGCGAC
ACCGGCACCGAGAGCAGGAGCGGCAGTGGCGGGCCGTGATGCTCATCCAGGCAGCCATTTCGTTCTGGTTAACTC
GGAAACACATCCAGAGGCTGCATGCAGCTGCCACAGTCATCAAGCGTGCATGGCAGAAGTGGAGAATCAGAATGG
CCTGCCTTGCTGCTAAAGAGCTGGATGGTGTGGAAGAAAAACACTTCTCTCAAGCTCCCTGTTCCCTGAGCACCT
CGCCGCTGCAGACCAGGCTCCTGGAGGCAATAATCCGCCTCTGGCCCTGGGACTGGTCTGGCCAATACGGCTA
TGGGTGTAGGCAGCTTTTCAGAGGAAATTAGTGGTCTGGGCTTGCCTCCAGCTCCCAGGGGCAGCCCCAGTAGCT
ACACTGTCCAGACAGCACAAGACCAGGCTGGTGTACGTCCATCCGAGCGCTGCCTCAGGGATCGATAAAGTTTC
ACTGCAGAAAGTCTCCACTGCGGTATGCTGACATCTGCCCTGAACCTTACCCTACAGCATTACAGGCTTTAATC
AGATTCTGCTGGAAAGACACAGGCTGATCCACGTGACCTCTTCTGCCTTCACTGGGCTGGGGTGATCCTTGGTGC
CTTTGTTTCCACAAGGCCTTTTCTGCCCCCTGCCTTGCCAAAGACATTTAATCAGCACACAGCTGCCAGACTAT
TCCCACAGTGCTCCAAATGCACATGAACAACAGTGACGGCTCCAGCCTTCGACCCAGAGCCCCGTGCCAGTGCG
TCAGTGGGCCTGGGGTTCCAGGCTACATCAAGCACTGATGGTGTGAGGGCTGGTAGTTACCAATCAGGGTTAAG
AAACATCAGGGCCACATTTCACTACCTTACAGATCAAACCTCAGCAGCAGTCATGACTGTCTGTCACTACACTGG
GGATCCCAATTCCACATAAGCACTTTTGAAGAAAACAGCCAAAGTTGGCCTAAAATTGGCGCTGGAATTTGGGC
TGGGAAAAATCTTGTGGTTATTTCTTTAAAAAGGAACAAAACCTTAGTATTTAATTAGTTGATTTATTTAATGT
AATTTCAAACAATTAAATTATGAATAATGCAATGT

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FIGURE 4841

ATGGACATGGCGGATGAGCCACTCAATGGAAGCCACACATGGCTATCCATTCCATTTGACCTCAATGGCTCTGTG
GTGTCAACCAACACCTCAAACCAGACAGAGCCGTACTATGACCTGACAAGCAATGCAGTCCTCACATTCATCTAT
TTTGTGGTCTGCATCATTGGGTTGTGTGGCAACACACTTGTCAATTTATGTCATCCTCCGCTATGCCAAGATGAAG
ACCATCACCAACATTTACATCCTCAACCTGGCCATCGCAGATGAGCTCTTCATGCTGGGTCTGCCTTTCTTGGCT
ATGCAGGTGGCTCTGGTCCACTGGCCCTTTGGCAAGGCCATTTGCCGGGTGGTCATGACTGTGGATGGCATCAAT
CAGTTCACCAGCATCTTCTGCCTGACAGTCATGAGCATCGACCGATACTGGCTGTGGTCCACCCCATCAAGTCG
GCCAAGTGGAGGAGACCCCGGACGGCCAAGATGATCACCATGGCTGTGTGGGGAGTCTCTCTGCTGGTCATCTTG
CCCATCATGATATATGCTGGGCTCCGGAGCAACCAGTGGGGGAGAAGCAGCTGCACCATCAACTGGCCAGGTGAA
TCTGGGGCTTGGTACACAGGGTTCATCATCTACACTTTCAATCTGGGGTTCCTGGTACCCCTCACCATCATCTGT
CTTTGCTACCTGTTTATTATCATCAAGGTGAAGTCCTCTGGAATCCGAGTGGGCTCCTCTAAGAGGAAGAAGTCT
GAGAAGAAGGTCACCCGAATGGTGTCCATCGTGGTGGCTGTCTTCATCTTCTGCTGGCTTCCCTTCTACATATC
AACGTTTCTTCCGTCTCCATGGCCATCAGCCCCACCCAGCCCTTAAAGGCATGTTTGACTTTGTGGTGGTCCTC
ACCTATGCTAACAGCTGTGCCAACCTATCCTATATGCCTTCTTGTCTGACAACTTCAAGAAGAGCTTCCAGAAT
GTCCTCTGCTTGGTCAAGGTGAGCGGCACAGATGATGGGGAGCGGAGTGACAGTAAGCAGGACAAATCCCGGCTG
AATGAGACCACGGAGACCCAGAGGACCCTCCTCAATGGAGACCTCCAAACCAGTATCTGA

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FIGURE 4842

MDMADEPLNGSHTWLSIPFDLNGSVVSTNTSNQTEPYDLSNAVLTFIYFVVCIIIGLCGNTLVIYVILRYAKMK
TITNIYILNLAIADLFLGLPFLAMQVALVHWPFGKAICRVMTVDGINQFTSIFCLTVMSIDRYLAVVHPIKS
AKWRRPRTAKMITMAVWGVSLLVILPIMIIYAGLRSNQWGRSSCTINWPGESGAWYTGFIYTFILGFLVPLTIIC
LCYLFIIIKVKSSGIRVGSSKRKKSEKKVTRMVSIVVAVFIFCWLPFYIFNVSSVSMAISPTPALKGMFDFVVVL
TYANSCANPILYAFLSDNFKKSFQNVLCVLKVS GTDDGERSDSKQDKSRLNETTETQRTLLNGDLQTSI

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FIGURE 4843

CAGCGAGCCGCGAGCGCAATCCCGGCGCTCGCCCCAAGGACCCCTGGAAGCTACCGTTACCCCGCCGGCAGCGTGGGC
GCCATGAGCAGCTCGGGACTGAATTCGGAGAAGGTAGCTGCTCTGATACAGAACTGAATTCGACCCCCAGTTC
GTACTTGCCCAGAAATGTCGGGACCACCCACGACCTGCTGGACATCTGTCTGAAGCGGGCCACGGTGCAGCGCGCG
CAGCATGTGTTCCAGCACGCCGTGCCCCAGGAGGGCAAGCCAATCACCAACCAGAAGAGCTCAGGGCGATGCTGG
ATCTTTTCTTGTCTGAATGTTATGAGGCTTCCATTCATGAAAAAGTTAAATATTGAAGAATTTGAGTTTAGCCAA
TCTTACCTGTTTTTTTTGGGACAAGGTTGAACGCTGTTATTTCTTCTTGAGTGCTTTTGTGGACACAGCCCAGAGA
AAGGAGCCTGAGGATGGGAGGCTGGTGCAGTTTTTGTCTTATGAACCCTGCAAATGATGGTGGCCAATGGGATATG
CTTGTTAATATTGTTGAAAAATATGGTGTTCCTTAAGAAATGCTTCCCTGAATCTTATACAACAGAGGCAACC
AGAAGGATGAATGATATTCTGAATCACAAGATGAGAGAATTCTGTATACGACTGCGGAACCTGGTACACAGTGGA
GCAACCAAAGGAGAAATCTCGGCCACACAGGACGTCATGATGGAGGAGATATTCCGAGTGGTGTGCATCTGTTTG
GGTAATCCACCAGAGACATTCACCTGGGAATATCGAGACAAAGATAAAAAATTATCAGAAAATTGGCCCCATAACA
CCCTTGGAGTTTTACAGGGAACATGTCAAGCCACTCTTCAATATGGAAGATAAGATTTGTTTAGTGAATGACCCCT
AGGCCCCAGCACAAGTACAACAACTTTACACAGTGGAATACTTAAGCAATATGGTTGGTGGGAGAAAACTCTA
TACAACAACCAGCCCATTGACTTCCTGAAAAAGATGGTTGCTGCCCTCCATCAAAGATGGAGAGGCTGTGTGGTTT
GGCTGTGATGTTGGAAAACACTTCAATAGCAAGCTGGGCCTCAGTGACATGAATCTCTATGACCATGAGTTAGTG
TTTGGTGTCTCCTTGAAGAACATGAATAAAGCGGAGAGGCTGACTTTTGGTGAGTCACTTATGACCCACGCCATG
ACCTTCACTGCTGTCTCAGAGAAGGATGATCAGGATGGTGCCTTACAAAATGGAGAGTGGAGAATTCATGGGGT
GAAGACCATGGCCACAAAGGTTACCTGTGCATGACAGATGAGTGGTTCTCTGAGTATGTCTACGAAGTGGTGGTG
GACAGGAAGCATGTCCCTGAAGAGGTGCTAGCTGTGTTAGAGCAGGAACCCATTATCCTGCCAGCATGGGACCCC
ATGGGAGCTTTGGCTGAGTGATACTGCCCTCCAGCTCTTTCCCTCCCTCCATGGAACCTGACGTAGCTGCAAAGGA
CAGATCCAGGGACTGAAGCCAAAGTTATGCAAGGGACTGTGTGTTGCCACAGGACACAGTCAGATTTCCAGTCTC
CACCAGGAACCTCTTCAGAAAGTGTGCTTTATGCTGAAACAGAATACTGTTAAAGGAAAAAAGAGGGGGGAAG
ATCAGGTCATACTATCTACTCTCCTCATCTCTAACAGCTCAGGATCTCTTAGCATTTTAATTAGATGTAATTGTT
TGTCTTTAACTGTCAAAAAGTTTGGTTCTGTGTCTGTGTTTTAATAAGACGAGAGGACGAGCGATTGAGGTGTAT
GGAGAGAAAAACAGACCTAATGCTCCTTGTTCCCTAGAGTAGAGTGGAGGGAGGGTGGCCTAAGAGTTGAGCTCTCG
GAACTGCATGCTGCTGGACAGTATCACTGTCTTTCCCTAGATGGCAGTCACTGAATTC

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FIGURE 4844

MSSSGLNSEKVAALIQKLNSDPQFVLAQNVGTTHDLLDICKRATVQRAQHVFQHAVPQEGKPITNQKSSGRCWI
FSCLVNMRPFPKKNIEEFESQSYLFFWDKVERCYFFLSAFVDTAQRKEPEDGRLVQFLLMNPANDGGQWDML
VNIVEKYGVIPKKCFPESYTTTEATRRMNDILNHKMRFCIRLRNLVHSGATKGEISATQDVMEEIFRVVCICLG
NPPETFTWEYRDKDKNYQKIGPITPLEFYREHVKPLFNMEDKICLVNDPRPQHKNKLYTVEYLSNMVGGRTLY
NNQPIDFLKKMVAASIKDGEAVWFGCDVGKHFNSKLGSDMNLVDHEL VFGVSLKNMNKAERLTFGESLMTHAMT
FTAVSEKDDQDGAFTKWRVENSWGEDHGHKGYLCMTDEWFSEYVYEVVDRKHVPPEVLAVLEQEP IILPAWDPM
GALAE

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FIGURE 4845

GTAGTCTGAGCGCTACCCGGTTGCTGCTGCCCAAGGACCGCGGAGTCGGACGCAGGCAGACCATGTGGACCCTGG
TGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGCCCAGATGGTCAGTTCTGCCCTGTGGCCT
GCTGCCTGGACCCCGGAGGAGCCAGCTACAGCTGCTGCCGTCCCTTCTGGACAAATGGCCCACAACACTGAGCA
GGCATCTGGGTGGCCCCCTGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGA
CTTCCAGTTGCTGCCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCACGGGGCTTCCACT
GCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACCTCCGTGGGTGCCATCCAGTGCCCTGATAGTC
AGTTCGAATGCCCCGACTTCTCCACGTGCTGTGTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGG
CTTCTGCTGTGAAGACAGGGTGCAGTGTGTCGACGGTGCCTTCTGCGACCTGGTTTACACCCGCTGCATCA
CACCCACGGGCACCCACCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTGCCCTTGTCCAGCT
CGGTCAATGTGTCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACCTGCTGTGAGCTGCCCAGTGGAAGTATG
GCTGCTGCCCAATGCCCAACGCCACCTGCTGCTCCGATCACCTGCACTGCTGCCCCAAGACACTGTGTGTGACC
TGATCCAGAGTAAGTGCTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGG
GGGATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAGTCGGGGGCTGGG
GCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACTGCTGTCCCGCGGGGTTTACGTGTGACA
CGCAGAAGGTACCTGTGAACAGGGGGCCCCACCAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGC
CAGACCCACAAGCCTTGAAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCC
AACTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCACCAGCACTGCTGCC
CCCAGGGCTACACGTGTGTAGCTGAGGGGCAGTGTGAGCGAGGAAGCGAGATCGTGGCTGGACTGGAGAAGATGC
CTGCCCGCCGGGCTTCTTATCCCAACCCAGAGACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGGCAGA
CCTGCTGCCCGAGCCTGGGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGC
ACTGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTCTCTGCCCAGCCTG
CCACCTTCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAGTGTGGGGAAGGACACTTCTGCCATGATA
ACCAGACCTGCTGCCGAGACAACCGACAGGGCTGGGCCTGCTGTCCCTACCGCCAGGGCGTCTGTTGTGCTGATC
GGCGCCACTGCTGCTCCTGCTGGCTTCCGCTGCGCAGCCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCT
GGGACGCCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTGTGAGGGACAGTACTGAAGACTCTGCAGCCCCCTCGG
GACCCCACTCGGAGGGTGCCCTCTGCTCAGGCCTCCCTAGCACCTCCCCCTAACCAAATTCTCCCTGGACCCCAT
TCTGAGCTCCCCATACCATGGGAGGTGGGGCCTCAATCTAAGGCCTTCCCTGTCAGAAGGGGGTTGTGGCAAAA
GCCACATTACAAGCTGCCATCCCCCTCCCCGTTTCAGTGGACCCTGTGGCCAGGTGCTTTTCCCTATCCACAGGGG
TGTTTGTGTGTGCGCGTGTGCGTTTCAATAAAGTTTGTACACTTTCAAAAA
AAA

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FIGURE 4846

MWTLVSWVALTAGLVAGTRCPDGQFCPVACCLDPGGASYSCCRPLLDKWPTTLRHLGGPCQVDAHCSAGHSCIF
TVSGTSSCCPFPEAVACGDGHHCCPRGFHCSADGRSCFQ RSGNNSVGAIQCPDSQFECPDFSTCCVMVDGSWGCC
PMPQASCCEDRVHCCPHGAFCDLVHTRCITPTGTHPLAKKLPAQRTNRAVALSSSV MCPDARSRCPDGSTCCELP
SGKYGCCPMPNATCCSDHLHCCPQDTVCDLIQSKLSKENATTDLLTKLPAHTVGDVKCDMEVSCPDGYTCCRLQ
SGAWGCCPFTQAVCCEDHIHCCPAGFTCDTQKGTCEQGPHQVPWMEKAPAHLSLPDPQALKRDVPCDNVSSCPSS
DTCCQLTSGEWGCCPIPEAVCCSDHQHCCPQGYTCVAEGQCQRGSEIVAGLEKMPARRASLSHPRDIGCDQHTSC
PVGQTCCPSLGGSWACCQLPHAVCCEDRQHCCPAGYTCNVKARSCEKEVVSAQPATFLARSPHVGVKDVECGEGH
FCHDNQTCCRDNRQGWACCPYRQGVCCADRRHCCPAGFRCAARGTKCLRREAPRWDAPLRDPALRQLL

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FIGURE 4847

GGCTAGGTGCGCTGCGAGCGCGCGGAGCCACGAGGGCGGACGGACGTAATGGGCCCCGCTGGCCCTGGGCGCCGC
GCCGCACGAGCACCAGCCTAGAGCCAGGACTGAAGCTTCAAGATGGCTGACCAGGACCCTGCGGGCATCAGCCCC
CTCCAGCAAATGGTGGCCTCAGGCACCGGGGCTGTGGTTACCTCTCTCTTTCATGACACCCCTGGACGTGGTGAAG
GTTTCGCCTGCAGTCTCAGCGGCCCTCCATGGCCAGCGAGCTGATGCCTTCCTCCAGACTGTGGAGCCTCTCCTAT
ACCAAATGGAAGTGCCTCCTGTATTGCAATGGTGTCTTGGAGCCTCTGTACCTGTGCCCAAATGGTGCCCGCTGT
GCCACCTGGTTTCAAGACCCTACCCGCTTCACTGGCACCATGGATGCCTTCGTGAAGATCGTGAGGCACGAGGGC
ACCAGGACCCTCTGGAGCGGCCTCCCCGCCACCCTGGTGATGACTGTGCCAGCTACCGCCATCTACTTCACTGCC
TATGACCAACTGAAGGCCTTCCTGTGTGGTCGAGCCCTGACCTCTGACCTCTACGCACCCATGGTGGCTGGCGCG
CTGGCCCCGCTGGGCACCGTGACTGTGATCAGCCCCCTGGAGCTTATGCGGACAAAGCTGCAGGCTCAGCATGTG
TCGTACCGGGAGCTGGGTGCCTGTGTTTCAACTGCAGTGGCTCAGGGTGGCTGGCGCTCACTGTGGCTGGGCTGG
GGCCCCACTGCCCTTCGAGATGTGCCCTTCTCAGCCCTGTACTGGTTCAACTATGAGCTGGTGAAGAGCTGGCTC
AATGGGTTCAAGCCGAAGGACCAGACTTCTGTGGGCATGAGCTTTGTGGCTGGTGGCATCTCAGGGACGGTGGCT
GCAGTGCTGACTCTACCCTTTGACGTGGTAAAGACCCAACGCCAGGTGCTCTGGGAGCGATGGAGGCTGTGAGA
GTGAACCCCTGCATGTGGACTCCACCTGGCTGCTGCTGCGGAGGATCCGGGCCGAGTCGGGCACCAAGGGACTC
TTTGCAGGCTTCCTTCCTCGGATCATCAAGGCTGCCCCCTCCTGTGCCATCATGATCAGCACCTATGAGTTTCGGC
AAAAGCTTCTTCCAGAGGCTGAACCAGGACCGGCTTCTGGGCGGCTGAAAGGGGCAAGGAGGCAAGGACCCCGTC
TCTCCACGGATGGGGAGAGGGCAGGAGGAGACCCAGCCAAGTGCCTTTTCTCAGCACTGAGGGAGGGGGCTTG
TTTCCCTTCCCTCCCGGCGACAAGCTCCAGGGCAGGGCTGTCCCTCTGGGCGGCCAGCACTTCTCAGACACAA
CTTCTTCCCTGCTGCTCCAGTCGTGGGGATCATCACTTACCCACCCCCCAAGTTCAAGACCAAATCTTCCAGCTGC
CCCCTTCGTGTTTCCCTGTGTTTGCTGTAGCTGGGCATGTCTCCAGGAACCAAGAAGCCCTCAGCCTGGTGTAGT
CTCCCTGACCCTTGTTAATTCCTTAAGTCTAAAGATGATGAACCTTCAAAAAAAAAA

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FIGURE 4848

MADQDPAGISPLQQMVASGTGAVVTSLFMTPLDVVKVRLQSQRPMSASELMPSSRLWSLSYTKWKCLLYCNGVLE
PLYLCPNGARCATWFQDPTRFTGTMDAFVKIVRHEGTRTLWSGLPATLVMTVPATAIYFTAYDQLKAFLCGRALT
SDLYAPMVAGALARLGTVTVISPLELMRTKLQAQHVSYRELGACVRTAVAQGGWRSWLWLGWPTALRDVPFSALY
WFNYELVKSWLNGFRPKDQTSVGMSFVAGGISGTVAAVLTLPFDVVKTQRQVALGAMEAVRVNPLHVDSTWLLLR
RIRAESGTKGLFAGFLPRIIKAAPSCAIMISTYEFGKSFFQRLNQDRLLGG

[illegible]

A

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FIGURE 4850A

GCGGAGCCGGAGGAGCCGCCGCAAAGATGGAGGAGCCGTCGAGGAGGTGCTGCCGCCGCTGCCGCCGCCGCTGCT
GCCGCCGCCGCCGCCGGAAGCCGGAGCTCGAGCCGCAGCGGGGATGCCGTTCTGAGTGCCCTGACTGCCCTCGCCCCG
AAGGATGGCCTCGGATGGGCATTAGAGGCACGGCGGCCCGGGCTCCCGTCCCGTCCGTCTGTCTGTTATCGTCT
GTCTCTCTTGACATCACCCGAGCTCCACCCCTCCCGTCCAGCCCCAACGCCAGCTTCCTGCAGGCCAGAGC
CGGCATGAACCTCTCCCAACGAGTCGGATGGGATGTGAGGTCGGGAACCATCCTTGAAATCCTGCCGCCGACTTC
TCTGCACAGCATCCCTGTGACAGTGGAGGTGAAGCCGGTGTGCCAAGAGCCATGCCAGTTCCATGGGGGGTGG
GGGTGGAGGCAGCCCCAGCCCTGTGGAGCTACGGGGGGCTCTGGTGGGCTCTGTGGACCCACACTGCGGGAGCA
GCAACTGCAGCAGGAGCTCCTGGCGCTCAAGCAGCAGCAGCTGCAGAAGCAGCTCCTGTTGCTGAGTTCCA
GAAACAGCATGACCACCTGACAAGGCAGCATGAGGTCCAGCTGCAGAAGCACCTCAAGCAGCAGCAGGAGATGCT
GGCAGCCAAGCAGCAGCAGGAGATGTGGCAGCCAAGCGGCAGCAGGAGCTGGAGCAGCAGCGGCAGCGGGAGCA
GCAGCGGCAGGAAGAGCTGGAGAAGCAGCGGTGGAGCAGCAGCTGCTCATCCTGCGGAACAAGGAGAAGAGCAA
AGAGAGTGCCATTGCCAGCACTGAGGTAAAGCTGAGGCTCCAGGAATTCCTCTGTGCAAGTCAAAGGAGCCAC
ACCAGGCGGCCTCAACCATTCCTCCACAGCACCCCAAATGCTGGGGAGCCACCATGCTTCTTTGGACCAGAG
TTCCCTCCCGAGAGCGGCCCTGGGACGCCTCCCTCTACAACTGCCTTTGCTGGGCCCTACGACAGTCG
AGACGACTTCCCCCTCCGCAAAACAGCCTCTGAACCCAACTGAAAGTGCCTTCAAGGCTAAAACAGAAGGTGGC
TGAGCGGAGAAGCAGTCCCTCCTGCGTCGCAAGGATGGGACTGTTATTAGCACCTTTAAGAAGAGAGCTGTTGA
GATCACAGGTGCCGGGCTGGGGCGTCGTCCGTGTGTAACAGCGCACCCGGCTCCGGCCCCAGCTCTCCCAACAG
CTCCACAGCACCATCGCTGAGAATGGCTTTACTGGCTCAGTCCCCAACATCCCCACTGAGATGCTCCCTCAGCA
CCGAGCCCTCCCTCTGGACAGCTCCCCCAACCAGTTCAGCCTCTACACGTCTCCTTCTCTGCCAACATCTCCCT
AGGGCTGCAGGCCACGGTCACTGTACCAACTCACACCTCACTGCCTCCCGAAGCTGTGACACAGCAGGAGGC
CGAGAGGCAGGCCCTCCAGTCCCTGCGGCAGGGTGGCACGCTGACCGGCAAGTTTCATGAGCACATCCTCTATTCC
TGGCTGCCTGCTGGGCGTGGCACTGGAGGGCGACGGGAGCCCCACGGGCATGCCTCCCTGCTGCAGCATGTGCT
GTTGCTGGAGCAGGCCCGGCAGCAGAGCACCCCTCATTGCTGTGCCACTCCACGGGCAGTCCCCACTAGTGACGGG
TGAACGTGTGGCCACCAGCATGCGGACGGTAGGCAAGCTCCCGCGGCATCGGCCCTGAGCCGCACTCAGTCCCTC
ACCGCTGCCGAGAGTCCCCAGGCCCTGCAGCAGCTGGTCATGCAACAACAGCACCAGCAGTTCCTGGAGAAGCA
GAAGCAGCAGCAGCTACAGCTGGGCAAGATCCTACCAAGACAGGGGAGCTGCCAGGCAGCCACCACCCACCC
TGAGGAGACAGAGGAGGAGCTGACGGAGCAGCAGGAGGTCTTGCTGGGGGAGGGAGCCCTGACCATGCCCCGGGA
GGGCTCCACAGAGAGTGAGAGCACACAGGAAGACCTGGAGGAGGAGGACGAGGAAGAGGATGGGGAGGAGGAGGA
GGATTGCATCCAGGTTAAGGACGAGGAGGGCGAGAGTGGTGTGAGGAGGGGCCGACTTGAGGAGGCTGGTGC
TGGATACAAAAAAGTGTCTCAGATGCCAGCCGCTGCAGCCTTTGCAGGTGTACCAGGCGCCCTCAGCCTGGC
CACTGTGCCCCACCAGGCCCTGGGCCGTACCCAGTCCCTCCCTGCTGCCCCCTGGGGGCATGAAGAGCCCCCAGA
CCAGCCCGTCAAGCACCTCTTACACAGGTGTGGTCTACGACAGTTTCATGCTAAAGCACCAGTGATGTGCGG
GAACACACACGTGCACCCCTGAGCATGCTGGCCGATCCAGAGCATCTGGTCCCGGCTGCAGGAGACAGGCCCTGCT
TAGCAAGTGCGAGCGGATCCGAGGTGCAAGCCACGCTAGATGAGATCCAGACAGTGCCTCTGAATACCACAC
CCTGCTCTATGGGACCAGTCCCTCAACCGGCAGAAGCTAGACAGCAAGAAGTTGCTCGGCCCATCAGCCAGAA
GATGTATGCTGTGCTGCCTTGTGGGGGCATCGGGGTGGACAGTGACACCGTGTGGAATGAGATGCACTCCTCCAG
TGCTGTGCGCATGGCAGTGGGCTGCCTGCTGGAGCTGGCCTTCAAGGTGGCTGCAGGAGAGCTCAAGAATGGATT
TGCCATCATCCGGCCCCCAGGACACCACGCCGAGGAATCCACAGCCATGGGATTCTGCTTCTTCAACTCTGTAGC
CATCACCACAAACTCCTACAGCAGAAGTTGAACGTGGGCAAGGTCTCATCGTGGACTGGGACATTACCATGG
CAATGGCACCCAGCAGGCGTTCTATAATGACCCCTCTGTGCTCTACATCTCTCTGCATCGCTATGACAACGGGAA
CTTCTTTCCAGGCTCTGGGGCTCCTGAAGAGGTTGGTGGAGGACCAGGCGTGGGGTACAATGTGAACGTGGCATG
GACAGGAGGTGTGGACCCCCCATTGGAGACGTGGAGTACCTTACAGCCTTCAGGACAGTGGTGTATGCCATTGC
CCACGAGTTCTCACCTGATGTGGTCTAGTCTCCGCCGGGTTTGATGCTGTTGAAGGACATCTGTCTCTCTGGG
TGGTACTCTGTACCGCCAGATGTTTTGGCCACTTGACCAGGCAGCTGATGACCCTGGCAGGGGGCCGGGTGGT
GCTGGCCCTGGAGGGAGGCCATGACTTGACCGCCATCTGTGATGCCTCTGAGGCTTGTGTCTCGGCTCTGCTCAG
TGTAAGCTGCAGCCCTTGGATGAGGCAGTCTTGAGCAAAAGCCCAACATCAACGCAGTGGCCACGCTAGAGAA
AGTCATCGAGATCCAGAGCAAACACTGGAGCTGTGTGAGAAAGTTCGCCGCTGGTCTGGGCCGGTCCCTGCGAGA
GGCCCAAGCAGGTGAGACCGAGGAGGCCGAGACTGTGAGCGCCATGGCCTTGCTGTGCGTGGGGGCCGAGCAGGC

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FIGURE 4850B

CCAGGCTGCGGCAGCCCGGGAACACAGCCCCAGGCCGGCAGAGGAGCCCATGGAGCAGGAGCCTGCCCTGTGACG
CCCCGGCCCCCATCCCTCTGGGCTTCACCATTTGTGATTTTGTATTTTTCTATTAAAAACAAAAAGTCACACA
TTC

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FIGURE 4851

MNSPNESDMSGREPSLEILPRTSLHSIPVTVEVKPVLPRAMPSSMGGGGGGSPSPVELRGALVGSVDPTLREQQ
LQQELLALKQQQQLQKQLLFAEFQKQHDHLTRQHEVQLQKHLKQQQEMLAALKQQQEMLAALKRQQELEQQRQREQQ
RQEELEKQRLEQQLLILRNKEKSKESAIASTEVKLRLQEFLLSKSKEPTPGGLNHSLPQHHPKCWGAHHASLDQSS
PPQSGPPGTTPPSYKLPPLPGPYDSRDDFPLRKTAEPNLKVR SRLKQKVAERRSSPLLRRKDGTIVISTFKKRAVEI
TGAGPGASSVCNSAPGSGPSSPNSSHSTIAENGFTGSPVNIPTMLPQHRLPLDSSPNQFSLYTSPSLPNISLG
LQATVTVTNSHLTASPKLSTQQEAERQALQSLRQGGTLTGKFMSTSSIPGCLLGVALEGDGSPHGHASLLQHVLL
LEQARQQSTLIAVPLHGQSPLVTGERVATSMRTVGKLP RHRPLSRTQSSPLPQSPQALQQLVMQQHQHFLEKQK
QQQLQLGKILTKTGELPRQPTTHPEETEEELTEQQEVLLGEGALTMPREGSTESESTQEDLEEEDEEEDGEEED
CIQVKDEEGESGAEEGPDLEEPGAGYKKLFSDAQPLQPLQVYQAPLSLATVPHQALGRTQSSPAAPGGMKSPDQ
PVKHLFTTG VVYDTFMLKHQCMCGNTHVHPEHAGRIQSIWSRLQETGLLSKCERIRGRKATLDEIQT VHSEYHTL
LYGTSPLNRQKLD SKLLGPI SQMYAVLPCGGIGVSDTVWNEMHSSSAVRMAVGCLLELAFKVAAGELKNGFA
IIRPPGHAEESTAMGFCFFNSVAITAKLLQQKLVNGKVLIVDWDIHHGNGTQQAFYNDPSVLYISLHRYDNGNF
FPGSGAPEEVGGGPVGYNVNAWTGGVDPPIGDVEYLTAFR TVVMP IAHFSPDVVLVSAGFDAVEGHL SPLGG
YSVTARCFGHLTRQLMTLAGGRVVLAELEGHDLTAICDASEACVSALLSVELQPLDEAVLQQKPNINAVATLEKV
IEIQSKHWSCVQKFAAGLGRSLREAQAGETEEAETVSAMALLSVGAEQAAAAAREHSPRPAEEPMEQEPAL

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FIGURE 4852

CGGAGGAGAGCGCAGGAGGAAACAGTACCGGCTGGAGGCCGGTCTTGACAGGAGCGGGGGACTGCTGGGGGCGGGG
CTTGGTGGTGACTGCTGGCGGGGCGGGGCCCTGGGGCTCAGAGGGGTGGGCTTTGGAGATCAGAGGGTCGACGCTG
CTTCGTTGCCCTGGACICTGGTTTTCCGCCCTGGAGCAAGCCGGGGCCTGGTCCGGCAGCTGGGCCGCC**ATG**GAGTCC
ACGCTGGGCGCGGGGCATCGTGATAGCCGAGGCGCTACAGAACCAGCTAGCCTGGCTGGAGAACGTGTGGCTCTGG
ATCACCTTTCTGGGCGATCCCAAGATCCTCTTTCTGTTCTACTTCCCCGCGGCCTACTACGCCTCCCGCCGTGTG
GGCATCGCGGTGCTCTGGATCAGCCTCATCACCGAGTGGCTCAACCTCATCTTCAAGTGGTTTTCTTTTGGAGAC
AGGCCCTTTTGGTGGGTCCATGAGTCTGGTTACTACAGCCAGGCTCCAGCCCAGGTTACACAGTTCCCCTCTTCT
TGTGAGACTGGTCCAGGCAGCCCTTCTGGACACTGCATGATCACAGGAGCAGCCCTCTGGCCCATAA**T**GACGGCC
CTGTCTTCGCAGGTGGCCACTCGGGCCCGCAGCCGCTGGGTAAGGGTGATGCCTAGCCTGGCTTATTGCACCTTC
CTTTTGGCGGTTGGCTTGTGCGGAATCTTCATCTTAGCACATTCCCTCACCAGGTGCTGGCTGGCCTAATAACT
GGCGCTGTCTGGGCTGGCTGATGACTCCCCGAGTGCCTATGGAGCGGGAGCTAAGCTTCTATGGGTTGACTGCA
CTGGCCCTCATGCTAGGCACCAGCCTCATCTATTGGACCCTCTTTACACTGGGCCTGGATCTTTCTTGGTCCATC
AGCCTAGCCTTCAAGTGGTGTGAGCGGCCTGAGTGGATACACGTGGATAGCCGGCCCTTTGCCTCCCTGAGCCGT
GACTCAGGGGCTGCCCTGGGCCTGGGCATTGCCTTGCACTCTCCCTGCTATGCCCAGGTGCGTCGGGCACAGCTG
GGAAATGGCCAGAAGATAGCCTGCCTTGTGCTGGCCATGGGGCTGCTGGGCCCCCTGGACTGGCTGGGCCACCCC
CCTCAGATCAGCCTCTTCTACATTTTCAATTTCTCAAGTACACCCTCTGGCCATGCCTAGTCCTGGCCCTCGTG
CCCTGGGCAGTGCACATGTTCAAGTGCCAGGAAGCACCGCCCATCCACTCTTCT**TG**ACTTCTTGTGTGCCTCCCT
TTCCTTTCCCTCCCAAAAGCCAACACTCTGTGACCACCACACTCCAGGAGGCAGCCCCATCCCCTTCCAGCCCC
TAAGTAGGCCCTCCCCTCCCTAAATCTGCTTCCGCACCACCTGGTCTTAGCCCCAAAGATGGGCCTTCTCTCTCC
CAGATAAGTTGGTCTCCCTCTGCCTTTCTCTCAAGCCCCAAAGAGCAAAGGCAACAGCAAGACCAGCGGGTT
CTTGCAACACTGTGAGGGGCAGCCAGGGCGGCCCCAATAAAGCCCTTGAATACTT

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FIGURE 4853

MESTLGAGIVIAEALQNQLAWLENVWLWITFLGDPKILFLFYFPAAYYASRRVGI AVLWISLITEWLNLI FKWFL
FGDRPFWWVHESGYYSQAPAQVHQFPSSCETGPGSPSGHCMITGAALWPIMTALSSQVATRARSRWVRVMP SLAY
CTFLLAVGLSRIFILAHFPHQVLAGLITGAVLGWLMTPRVPMERELSFYGLTALALMLGTS LIYWTFLTGLDLS
WSISLAFKWCERPEWIVDSRPFASLSRDSGAALGLGIALHSPCYAQVRRQLGNGQKIACLVLAMGLLGPLDWL
GHPPQISLFYIFNFLKYTLWPCLVLALVPWAVHMFSAQEAPP IHSS

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FIGURE 4854

GGCACGAGGCCGCGAGCGGACTGCCCTTTCCCAAGATGGCGTCGAAGATAGGTTTCGAGACGGTGGATGTTGCAGCT
GATCATGCAGTTGGGTTTCGGTGCTGCTCACACGCTGCCCCCTTTGGGGCTGCTTCAGCCAGCTCATGCTGTACGC
TGAGAGGGCTGAGGCACGCCGGAAGCCCGACATCCCAGTGCCTTACCTGTATTTGACATGGGGGCAGCCGTGCT
GTGCGCTAGTTTCATGTCCTTTGGCGTGAAGCGGCGCTGGTTCGCGCTGGGGGCCGCACTCCAATTGGCCATTAG
CACCTACGCCGCTACATCGGGGGCTACGTCCACTACGGGGACTGGCTGAAGGTCCGTATGTACTCGCGCACAGT
TGCCATCATCGGCGGCTTTCTTGTTGGCCAGCGGTGCTGGGGAGCTGTACCGCCGGAACCTCGCAGCCGCTC
CCTGCAGTCCACCGGCCAGGTGTTCTGGGTATCTACCTCATCTGTGTGGCCTACTCACTGCAGCACAGCAAGGA
GGACCGGCTGGCGTATCTGAACCATCTCCAGGAGGGGAGCTGATGATCCAGCTGTTCTTCGTGCTGTATGGCAT
CCTGGCCCTGGCCTTTCTGTCAGGCTACTACGTGACCCTCGCTGCCAGATCCTGGCTGTACTGCTGCCCCCTGT
CATGCTGCTCATTGATGGCAATGTTGCTTACTGGCACAACACGCGGCGTGTGAGTTCTGGAACCAGATGAAGCT
CCTGGAGAGAGTGTGGGCATCTTCGGAAGTCTGTGTCATCCTGGCCACTGATGGCTGAGTTTTATGGCAAGAGGC
TGAGATGGGCACAGGGAGCCACTGAGGGTCACCCTGCCTTCCTCCTTGCTGGCCAGCTGCTGTTTATTTATGCT
TTTTGGTCTGTTTGTTTGATCTTTTGCTTTTTTAAATTTGTTTTTGCAGTTAAGAGGCAGCTCATTGTGCCAAA
TTTCTGGGCTCAGCGCTTGGGAGGGCAGGAGCCCTGGCACTAATGCTGTACAGGTTTTTTTCTGTTAGGAGAGC
TGAGGCCAGCTGCCCACTGAGTCTCCTGTCCCTGAGAAGGGAGTATGGCAGGGCTGGGATGCGGCTACTGAGAGT
GGGAGAGTGGGAGACAGAGGAAGGAAGATGGAGATTGGAAGTGAGCAAATGTGAAAAATTCCTCTTTGAACCTGG
CAGATGCAGCTAGGCTCTGCAGTCTGTTTGGAGACTGTGAGAGGGAGTGTGTGTGTTGACACATGTGGATCAGG
CCCAGGAAGGGCACAGGGGCTGAGCACTACAGAAGTCACATGGGTTCTCAGGGTATGCCAGGGGCAGAAACAGTA
CCGGCTCTCTGTCACTCACCTTGAGAGTAGAGCAGACCCTGTTCTGCTCTGGGCTGTGAAGGGGTGGAGCAGGCA
GTGGCCAGCTTTGCCCTTCCTGCTGTCTCTGTTTCTAGCTCCATGGTTGGCCTGGTGGGGGTGGAGTTCCTCCC
AAACACCAGACCACACAGTCCTCCAAAAATAAACATTTTATATAGACAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4855

MASKIGSRRWMLQLIMQLGSVLLTRCPFWGCFSQLMLYAERAEARRKPDIPVPYLYFDMGAAVLCASFMSFGVKR
RWFALGAALQLAISTYAAAYIGGYVHYGDWLKVRMYSRTVAIIGGFLVLASGAGELYRRKPRSRSLQSTGQVFLGI
YLICVAYSLQHSKEDRLAYLNHLPGGELMIQLFFVLYGILALAFLSGYVTLAAQILAVLLPPVMLLIDGNVAYW
HNTRRVEFWNQMKLLGESVGIFGTAVILATDG

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FIGURE 4856

AAAGGACCGAGGCGTGCAGCGGACAGCAGATGGATCCCGCGGCCAGCAGCTGCATGAGGAGCCTCCAGCCCCCAG
CCCCGTGCTGGGGCTGCCTTCGAAACCCCCACTCGGAAGGCAATGGGGCCTCAGGGCTACCCCACTACCCGCCCA
CCCCGTTCCTTCCACCAGAAACCAGACTTCCTGGCGACAGCGACGGCAGCGTACCCTGACTTCTCAGCCTCCT
GCCTGGCAGCCACCCACACAGCCTGCCCCAGGAGGAGCACATCTTCACTGAGCAGCACCCCGCTTTCCACAGT
CCCCCAACTGGCACTTCCCTGTCTCAGACGCCCGGCGCAGGCCCAACTCAGGCCCGGCAGGGGGTTCCAAGGAAA
TGGGGACCAGCAGCCTGGGCCTGGTGGACACCACAGGAGGCCAGGCGATGACTACGGGGTGCTTGGGAGCACTG
CCAATGAGACAGAGAAGAAATCATCCAGGCGGAGAAAGGAGAGTTTACAGACAACCAGGAGAACAGAGGGAAGCCGG
AGGGCAGCAGCAAAGCCCGCAAGGAGAGGACGGCCTTACCAAGGAGCAGCTGCGAGAGCTGGAGGCAGAGTTTG
CCCATCATAACTACCTGACTCGGCTCCGCAGATATGAGATTGCGGTAAACCTGGACCTCTCTGAGCGCCAGGTCA
AAGTGTGGTTCCAGAACC GAAGGATGAAGTGAAGCGTGTGAAGGGAGGTGAGCCCATCTCCCCCAATGGGCAGG
ACCTGAGGATGGGGACTCCACAGCCTCTCCAAGTTCAGAGTGAGATTCTGCATGGAGGAAAAATGACTAAGGAC
TGAGCCCCCTACCCAATACCCCCACCCCAATCCACCTTACCCTCTTCTTCCCCAGCCAGGGCAGCCTCTCC
ACATCTTTCCCTGACTCTTGGATATGAAACTGCCAGCATTCCTGGGAGTCTTAGGATTTTCTAGGAAGTTCTGT
CCAGCCTCTTAGCAGCCTCTTCCCTAGGGCCTTTGCTCCACACTCTCATGGAATCAGACAGAGATCCTACCGGG
CCGGATGAATCTGGAACAGCTTCAGAGATACTGCTTCTCAGCGTCTCTTGGCTGCCACCCATGCCTCCTCCTAC
CGCTGTTCTCCTAGGTCAGCCAGGCCTCCTCCTGGTCTGGACACCACCTGGCCTGGTGGGAGAGGAGCTTTGGAA
CCAGCTGGCGACTCGGAAAGTAAATGCTTCAAAGGAAGGAAATGACAGAGACACACGCCCTTGCCACCTTCCT
CTGTAGGCTGCACATCTGAGGCTTTGGGGCCCCCTTAGTTGTCCGAAACCCCAAGAAAAATCAGAATGAGGAGAG
TCAAGGACAGCAACTCAGCTGCTGCAAGCCAGAAACACATCCCTGTCTCCAAATTTGTTGGCTAAGTGAGACAC
TTCTGAGAACTGACTAGAGAAGACAGAAAAATAGCCCGATGTAGGTTTCGGTGTCCCCATATAGGCCCGTCCACA
CAGGCTTGACTGGGTGGACAAGAATGAACCCATGACAGCACCTGCTGCTTCAAAATCAAAATCAATTTAGGGATA
CAGCAGGGGCTGTTGGGCTGTGCTCCAGAGAAAAGGAGCAGCTACTCCTTTTAAATCCACGATTTCTGGATTGAA
AACCTGTCCAGATGCTGAGTTGTTGGGCTGAACAACCTAGGAGCTGAAAACAACGTAGAGGCTGGAAAGTGTCCTCC
TGCAATCTGGAGGGGAGGGGAGATAATAAGGAGGGCTGCTGGGTGAGGGCCTGGAGATGTGGAACCTGGAGTGG
AAGGTTCTCCAGTGACAGTGTCTGTGACTGCAAAAGGGGACAAGAAAATCCCTCTTCTCCATGGGATGGATTT
AAGCTCTTGCTGTGTGTTCTACAAATGCTGTTATTGTGGGAGGAAATGCTAGGTTTTTGTGTGTGGACTGCCAG
ACCTCAGCCAGGTCTTCTGGAGATGACATTTGAGGACTGATGGCCAAAGAGCATGGGGGACTGAAGCCCTGGCTG
CCTCAGCGCTCTGTCTCCCAACACCAGCTGGTGTGTCAGAGGGAGGTCAACGTGAGTTTGGATCTCTTGTACGCA
GATGTAATCATTACATGTAAAAATAACCCACCTCCCCACCCCAAAAGGGCAAGAGCTGTGGAAAAATGATTGC
CAATGAGATGGCTGGTTAGAGCATGATTTTTCTAAAGCATACTTCATATATTTTCTTAAGATTACATCAAGCT
AATTGTGCGAGCTCAATTCACCTTGTAAAGAAAACCTCTCGGAGAAATAAAATCAATAAAAAAGC

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FIGURE 4857

GAGCGGCCCCGAGGAGGACGCAGCGGCGCTGGAGCTTTCGTCGGACGAGGCGGTGGAGGTTGAGGAGGTTATTGAG
GAGTCCCGCGCAGAGCGTATCAAGCGCAGACACTGCGGCGCGTGGACGACTTCAAGAAGGCCTTCTCCAAGGAGA
AGATGGAGAAGACCAAGGTGCGTACCCGCGGAGAACCTGGAGAAGACGCGCCTCAAGACCAAGGAAAACCTGGAGA
AGACGCGGCACACCCTGGAGAAGCGCATGAACAAGCTGGGCACGCGCCTGGTGCCCGCCGAGCGGCGCGAGAAAC
TGAAGACGTGCGGGGACAAGTTGCGCAAATCCTTCACGCCCCGACCACGTGGTGACGCGCGCTCCAAGACCGCGG
TCTACAAGGTGCCACCCTTCACCTTCCACGTCAAGAAGATCCGCGAGGGCCAGGTGGAAGTGCTCAAGGCCACCG
AGATGGTGGAGGTGGGCGCCGACGACGAGGGCGGCGGAGCGCGGGGAGGCCGCGACCTGCGGCGCGGGAGC
AGCCCCGACGTGCACGCGCTGCTGGAGATCACCGAGGAGTCGGACGCGGTGCTGGTGACAAGAGCGACAGCGAC
TGAGCCGCCCCCGCTGCCACCCACCCCATTCCTCGCTCCTTCCGAACCTCCTCTTTCGCATTCTCTCTCGGCTCG
AGCTGGCTGAGATTTTTCTAAATTGAAAACACGCCCCCTCCCCACACCTCCAGGAACTCCACTCCCAGTCTTAG
AGCTGTTAGGACCCGATGGGGAGGCAGCCCCCGAGTGGACAGCCCCGCTTGGACACAGTCCGAGTGGAATGGG
AAGGGAATGGTCAATCCCTGTCTGGTTGTCCAAGTCGGGATCTCAGAGGAAATTGCAGTGATTCCACGGTTAGG
CCCCCTGGGGGGGCTGCCTTCCCCTCAGCCTCTCCCCACACCACCCACCCAGCTGCTGTCAATCCGCTCACTGA
GCTCTTCTTCAATCTCACCTGATCCCTGGGGGACTCAAAGCCAAAACCTGCCCAAAGAGGAAAGATTGAATCCTA
AAGGGGATCCTTGCCCCCATGGGAGGCCCTTACTAGAAGGACGTGAAAGCAGCTTTTGGGGGAAACTGAGGCAG
TGGGGAAGACAGAGCAGAATGAGCCCTCACCTGGCTGGGGGTCCAGCACAGGCTGTATCTGCAGAGGGTCCAG
AGGAACGCTGGAGCCAAGAGAAGCCCTGGGAAGGAGGGGTGGGGAACGACATGCATGTGAGGGATGGCACACTGA
TGTGTTTATGCACCTGTACACAGGAGCGCATGGCCATGGCTTTGGAAAGGAGAATGGAAAAATAGAAGAAGGTCTG
GCCGGGCTTGGTGGCTTATGCCTGTAACCCAGCACTTTGGGAGGCCGAGGTGGGCGGATCACCTGAGGTCAGGA
GTTCCGGACAGCCTGGCAAACACCCCATCTCTACTAAGCGAAAACCCATCTCTACTAAAATTACAAAAATTAGC
TGGGCATGATTGCGCATGCCTGTAATCCAGCTACTTTGGAGGCTGAGGTGGGAGAAATTGCTTGAACCTGGGAG
GTGGAGGTTGCAGTGAGCCAAGGTGCGGACACTGCACTCCAGCCTGGGTGACAGAGTGAGACTCCATCTCAACAG
AAGGAAAAAAGGAAAAATAGGAGAAGGTGGAAATGGGTGAAGAGAGAAGTCCCCTCACTAGCTGCATGAGAAAT
CTATCTTACTGTGGTTCTCCATGGGCAGCAGGACCATTTTTCAGAATCAAGAGGGAGGACAGTGTGAGAAGGCGA
TGATCCAAAGAAGACAGAGAGGTGAGCCCCACCCGATCCCTCAAATGGGCTCTTGGAGGCACCCCCAGGGGCAGC
CCATTTCTCAAAGTCCAGAAAAATTAGGGTCCCAGAAGGGGGCAGCAGCAGGCTGGGAGTTAGGAGGGAGAGCAGG
GTGCCGGCCCTGCCACCAAGTTGAGAGCTGGAGGGGAGGTGGGGAGAGAACATCACAGAGCAGCCAGCCCTGGTT
CACTCCTGGCAGTTTCTTCTCAAGCTCCTTCCCTAGGAGCATGGTGGCACGTGCCTGTGGTCTCAGCTACTTGGG
AGGCTGAGGCGGGAGGATCGCCAGAGCCCAGGAGTTTGGGCTGCAGTGAGCTATGAGGGTGCCTCTGTGCTCCA
TCTAGGCAACAGAGTGAGACGCTGTTTAAAAAGGAAAAAATCCTTCCCTAGAGCTAGTATCCTAAAGCTGCAGA
GCTAGCCCAGACCTCATTGGTTTCTTGTCTTGGGGTGCTTTTCTGAATCTTTGGGGGTGAAGGGAGTGTTC
TCCCAGTCCAGAGGCCTGATTCTGTTTCGACTGGGTCTCAAGACACGACCAGGTTCTCAAGACACGAGTCCCCCT
TGTTCTCCCATTAAGGGGGTTTGTGAGAAGCAAGAACAGCCCCCTCTCCCAGTCACAGCCTGAAGGGAGGCC
CCGAGAGCTTCCTCCTTCCCCCACCTGCTCCTTACCTTCTCTGCCCTGCTTTTTAGAACTGCAGTTCATTGTTT
TAAGGGATTGGGGGAGGGAGCCTGGGGACACAAACCTTTTATACAATACAAAGCTTTGCTTTTTTTTTTTTTTTC
TTCTTTTCCCTTTCTCGGTTCTTCTCTCTCTGAATGGCTGAAGAGCCCTCTGCCGAGGGAGGTTGGGGATT
GTGGGACAAGGTCCCTTGGTGCTGATGGCCTGAAGGGGCTGAGCTGTGGGCAGATGCAGTTTTCTGTGGGCTTG
GGGAACCTCTCACGTTGCTGTGTCTGGTGAGCAGCCCGACCAATAAACCTGCTTTTCT

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FIGURE 4858

MEKTKVRTRENLEKTRLKTKENLEKTRHTLEKRMNKLGTRLVPAERREKLKTSRDKLRKSFTPDHVYARSKTAV
YKVPPFTFHVKKIREGQVEVLKATEMVEVGADDDEGGGARGGRRPAAREQPRRARAAGDHRGVGRRAGGQERQRL
SRPRCHPPHSSLLPNFLFRILSRLELAEIFLN

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FIGURE 4859

ATGGCCGTATTCCGGTCGGGTCTCCTGGTGCTGACGACGCCGCTGGCCTCCCTAGCCCCCTCGCCTGGCCTCCATC
CTGACCTCGGCGGCCCGGCTGGTGAATCACACACTCTATGTTACCTGCAGCCGGGCATGAGCCTGGAGGGCCCG
GCTCAGCCCCAGTACAGCCCCGTGCAGGCCACGTTTGAGGTTCTTGATTTCATCACGCACCTCTATGCTGGCGCC
GACGTCCACAGGCACTTGGACGTGAGAATCCTACTGACCAATATCCGAACCAAGAGCACCTTTCTCCCTCCCCTG
CCCACCTCAGTCCAGAATCTCGCCACCCGCCAGAAGTCGTGTTGACAGATTTCCAGACCCTGGATGGAAGCCAG
TACAACCCGGTCAAACAGCAGCTAGTGCGTTACGCCACCAGCTGTTACAGCTGTTGTCCGCGACTGGCCTCGGTG
CTGCTATACTCCGATTATGGGATAGGAGAAGTGCCCGTGGAGCCCCTGGATGTCCCCTTACCCTCCACGATCAGG
CCAGCTTCCCCCGTGGCCGGGTCTCCAAAGCAGCCGGTGCCTGGCTACTACCGTGGCGCTGTCGGTGGCACGTTT
GACCGCCTGCACAACGCCACAAAGGTGTTGCTCAGTGTGCGGTGCATCCTGGCCCAGGAGCAGCTTGTGGTGGGA
GTAGCAGACAAAGATCTGTTGAAGAGCAAGTTGCTCCCTGAGCTGCTCCAACCTTATACAGAACGTGTGGAACAT
CTGAGTGAATTCTGGTGGACATCAAGCCCTCCTTGACTTTTGATGTCATCCCCCTGCTGGACCCCTATGGGCCC
GCTGGCTCTGACCCCTCCCTGGAGTTCTGGTGGTCAGCGAGGAGACCTATCGTGGGGGGATGGCCATCAACCGC
TTCCGCCTTGAGAATGACCTGGAGGAACCTTGCTTTGTACCAGATCCAGCTGCTGAAGGACCTCAGACATACGGAG
AATGAAGAGGACAAAGTCAGCTCCTCCAGCTTCCGCCAGCGAATGTTGGGGAACCTGCTTCGGCCTCCATATGAA
AGGCCAGAGCTCCCCACATGTCTCTATGTAATTGGGCTGACTGGCATCAGTGGCTCTGGGAAGAGCTCAATAGCT
CAGCGACTGAAGGGCCTGGGGGCGTTTGTCATTGACAGTGACCACCTGGGTGTCATCGGGCCTATGCCCCAGGTGGC
CCTGCCTACCAGCCTGTGGTGGAGGCCCTTTGGAACAGATATTCTCCATAAAGATGGCATCATCAACAGGAAGGTC
CTAGGCAGCCGGGTGTTTGGGAATAAGAAGCAGCTGAAGATACTCACGGACATTATGTGGCCAATTATCGCAAAG
CTGGCCCAGAGGAGATGGATCGGGCTGTGGCTGAGGGAAAGCGTGTGTGTGATTGATGCCGCTGTGTGCTT
GAAGCCGGCTGGCAGAACCTGGTCCATGAGGTGTGGACTGCTGTATCCAGAGACTGAGGCTGTAAGACGCATT
GTGGAGAGGGATGGCCTCAGTGAAGCCGCGGCTCAAAGCCGGCTGCAGAGCCAGATGAGCGGGCAGCAGCTTGTG
GAACAGAGCCACGTGGTGTCTCAGCACCTTGTGGGAGCCGCATATCACCCAACGCCAGGTGGAGAAAGCCTGGGCC
CTCTTGCAAGAAGCGCATTCCCAAGACTCATCAGGCCCTCGACTGA

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FIGURE 4860

MAVFRSGLLVLTTPPLASLAPRLASILTSAARLVNHTLYVHLQPGMSLEGPAQPQSSPVQATFEVLDFITHLYAGA
DVHRHLDVRILLTNIRTKSTFLPPLPTSVQNLAPPEVVLTDFTLDGSQYNFVKQQLVRYATSCYSCCPRLASV
LLYSDYGIGEVPEPLDVPLPSTIRPASPVAGSPKQPVRGYYRGAVGGTFDRLHNAHKVLLSVACILAEQLVVG
VADKDLLKSKLLPELLQPYTERVEHLSEFLVDIKPSLTDFVIPLLDPYGPAGSDPSLEFLVVSEETYRGGMAINR
FRLNDLEELALYQIQLLKDLRHTENEEDKVSSSSFRQRMGLGNLLRPPYERPELPTCLYVIGLTGISGSGKSSIA
QRLKGLGAFVIDSDHLGHRAYAPGGPAYQPVVEAFGTDILHKDGIINRKVLGSRVFGNKKQLKILTDIMWPIIAK
LAREEMDRAVAEGKRVCVIDA AVLLEAGWQNLVHEVWTAVIPETEAVRRIVERDGLSEAAAQSRQSQMSGQQLV
EQSHVVLSTLWEPHITQRQVEKAWALLQKRIPKTHQALD

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FIGURE 4861

CCTCGCCGCAGGGGGCCCGCCGCTGGCCCGTTTCCGGTCCGGTGGGTACAAGATGACGGAGCCGGGCGCCTCTC
CCGAGGACCCTTGGGTCAAGGCAAGCCCCGTGGGCGCGCACGCCGGCGAGGGGAGGGCGGGTCTGGGCTCGTGCAC
GTAGGGGGGCGGAAGACGAGGGGCTTCCCTCCTGTCCCCAAAGTCCCCACGCTCTCCGTGCCCCGGGGCTGCA
GAGAAGACAGCTCTACCCCGGTGTGCCAAGGTGGAGTATGCCTACAGCGACAACAGCCTGGACCCCGGGCTTT
TTGTAGAAAGCACCCGCAAGGGGAGTGTAGTGTCCAGAGCTAATAGCATCGGTTCCACCAGTGCCTCTTCTGTCC
CCAACACAGATGATGAGGACAGTGATTACCACCAGGAGGCCTACAAGGAGTCCTACAAAGACCGGCGGCGCGCG
CACACACTCAGGCTGAGCAGAAGAGGAGGGACGCCATCAAGAGAGGCTATGATGACCTTCAGACCATCGTCCCCA
CTTGCCAGCAGCAGGACTTCTCCATTGGCTCCCCAAAAGCTCAGCAAAGCCATCGTTCTACAAAAGACCATTGACT
ACATTCAGTTTTTGCACAAGGAGAAGAAAAAGCAGGAGGAGGAGGTGTCCACGTTACGCAAGGATGTCACCGCCC
TAAAGATCATGAAAGTGAAGTATGAGCAGATTGTGAAGGCACACCAGGACAACCCCCATGAAGGGGAGGACCAGG
TCTCTGACCAGGTCAAGTTCAACGTGTTTCAAGGCATCATGGATTCCCTGTTCCAGTCTTCAATGCCTCCATCT
CAGTGGCCAGCTTCCAGGAGCTGTGACGCTGTGTCTTCAGCTGGATCGAGGAGCACTGTAAGCCTCAGACCCTGC
GGGAGATTGTGATTGGCGTCTCTGCACCAATTGAAAAACCAGCTTTACTGACCGGTTCTTGAAACCTGGAGAACA
GCCAACAAGAGGCCCTTGAATCTCTACGTGGCCACTGAACTGCTGGGCCCGGGAGACTGGACTACAACACCTCAC
ACTGGTCAGCTGGTTTCTACTTGGTGTGTTTGGTTTTCCAGCCCCATTTTATCTTCAGCGGAGCCGCGGTGTTTG
TTTTGTGAAAGCTTCTGATTAATTTATTATATTGACGATAAACTCAAACCTACCCAGCCTTCCCCCACTCCAT
GGAAGTCCTTGGGATGGGCGTCTGCTCTGGACACCCCAAAGAGCTCCTGCCCTCTCAGCCCTTTATTCAAGCCTC
AGATTTCTGCTCATGATCTACATAGATTTGGAACTGTTTTCTCTGTTTTGGTCTCTTGGGCAACATTTTTGGC
CCAAGTTTGGGCAACATTTGGCCCAAGTTTGGGCATTTTGGCAGTAGCTGTATGGGAGAAAAAGAGTAAGAGGAA
ATATTTCCACAGCCATGAAGGGTGAAAGGGCACCTTGTGCCTAGACTAGGGCTGCCTGGTCAGTCCAGGTGAGG
CCAAGGGCTTTCTGGCCATCTCAGGGAGGGGCCACCAGGTTTCTCCCTCACCCCATATTCCATCACCTTCTCC
TCTGCTCTGGGTGGTAAGGGAAGCCCTCCCGGTTCCACAGGCTATGATGCTGCATGGCAGAGGCAGGTATAACA
CAGCACTACATATTGAAATTTTTTATTTTTCTAAATACCAATGCAGTTTTGCTACGGTTACAATTTTTGAAATAT
TAACTGAGCCTCAAAATCACCTTTCTGTCAAGCATATCTTGGCCTCTCCCATGTCTCAGTGTGCTGCATTTT
TCCCAGGACTTGGGGGTGGGGTGAAAAGCGTACAAAAGATACTTAAAAGGGCTCCTGGGGGTACACAAGCCAGCA
GGTCCTGAGTGAAGCCGTGGGCCCTCCAAATGCTCGTTTTATAGCAACCTCTCTCTACCCTAGTTCTCCAAATTC
ACTTCTGCCTTCTCAGGTTTGATATCTGGCAGGTTTGACTATCCAGAGGAAATTAAATATTTTTTATATAAAATT
AAATTATAATAAATATTGCCAAATGCTTTCTTTAGCATTGTTCCAAGTCTAAATGTAACTCAAGCTACTGCA
ATTTAGACAATGAAATGGGCTGGGTCTACCCCCAGCCACCAGCCCTCATCCTCTCTACCCAGTGTCTGTTTAT
GCTTGCTCTCTGACTGCTCTGCTTAAAGGTGAAAGTAGCAGGAACAACAACAAAAGCCAACCAAAAACAAGGTAG
CCAGTGCAAGACATCTCACTCTTCTGACATCCTGCAGTCCCCACCAGTCTGACCGTGGGCCCCCTCAGGGGTCTG
GGAGTGTGACGTTGTAATCTTCATCCGTCTCTATCCCAACTTCTCCTGTGAGACAGGGAGACAAGTGAATGAGA
TGTCACCAGGATAAGACCACAGGGAAGCAAAGAAGGAAGAGAGCTCCACTTACAAAGAACTGCTTCTTGCTCTTG
GGGTATCCTTCAAGTATTGCATCAGACAGCTCTGTAGCCTGACAAGAAATAAAACCACCCGTTTTTCAGATGGGCA
GCACTGGGCACTGCCTGTGAGTTTATGATATTGTGT

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FIGURE 4862

MTEPGASPEDPWKASPVGAHAGEGRAGRARARRGAGRRGASLLSPKSPTLSVPRGCREDS SHPACAKVEYAYS
NSLDPGLFVESTRKGSVVS RANSIGSTSASSVPNTDDESDYHQEAYKESYKDRRRRAHTQAEQKRRDAIKRGYD
DLQTIVPTCQQQDFSIGSQKLSKAIVLQKTIDYIQFLHKEKKKQEEVSTLRKDV TALKIMKVNYEQIVKAHQDN
PHEGEDQVSDQVKFNVFQGIMDSL FQSFNASISVASFQELSACVFSWIEEHCKPQTLREIVIGVLHQLKNQLY

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FIGURE 4863

CAACTACAACGTCCGGCTTTCTGAGTTGGGTGGCGGGAAGGCGATGAGTAAAGGCCGGGCAGAAGCTGCGGTAG
CCGCCGGGATCCTCCTGAGGTACCTGCAGGAGCAGAACCGGCCCTACAGCTCCCAGGATGTGTTCGGGAACCTAC
AGCGGGAACACGGACTGGGCAAGGCGGTGGTGGTGAAGACGCTGGAGCAGCTGGCGCAACAAGGCAAGATCAAAG
AGAAGATGTACGGCAAGCAGAAGATCTATTTTGGCGATCAGGACCAGTTTGACATGGTGAGTGATGCTGACCTTC
AAGTCCTAGATGGCAAAATCGTGGCCCTCACTGCTAAGGTGCAGAGCTTGCAGCAGAGCTGCCGCTACATGGAGG
CTGAGCTCAAGGAATTATCTAGTGCCCTGACCACACCAGAGATGCAGAAAGAAATCCAGGAGTTAAAGAAGGAAT
GCGCTGGCTACAGAGAGAGATTGAAGAACATTAAAGCAGCTACCAATCATGTGACTCCAGAAGAGAAAGAGCAGG
TGTACAGAGAGAGGCAGAAGTACTGTAAGGAGTGGAGGAAGAGGAAGAGGATGGCTACAGAGCTGTCTGATGCAA
TACTTGAAGGATACCCAAGAGCAAGAAGCAGTTCTTTGAGGAAGTTGGGATAGAGACGGATGAAGATTACAACG
TCACACTCCCAGACCCCTGAGGGGCCACGGTCAGGACTGGTGGGACTGCAGGATGTCAGAAGAGTGAGATGTC
TTGCACTGGCTACCTTGTTTTTGGTTGGCTTTTGTGTTGTTCTGCTACTTTCACCTTTAAGCAGAGCAGTCAG
GAGACAAGCATAAACCAGAGCACTGGGTAGAGAGGATGAGGGCTGGTGGCTGGGGGTAGACCCAGCCATTTTCAT
TGTCTAAATTGCAGTAGCTTGAGGTAAACATTTAGACTTGGAACAATGCTAAAGGAAAGCATTGTGGCAATATTTA
TTATAATTTAATTTTATATAAAAAATATTTAATTTCTCTGGATAGTCAAACCTGCCAGATATCAAACCTGAGGAA
GGCAGAAGTGAATTTGGAGAACTAGGGTAGAGAGAGGTTGCTATAAAACGAGCATTGGAGGGCCACGGCTTCA
CTCAGGACCTGCTGGGCTTGTGTACCCAGGAGCCCTTTTAAGTATCTTTTGTACGCTTTTCACCCACCCCAA
GTCCTGGGAGAAATGCAGGCAACACTGAGACATGGGAGAGGCCAAGATATGCTTGACAGAAAGGGTGATTTTGAG
GCTCAGTTAATATTTCAAAATTGTAACCGTAGCAAACTGCATTGGTATTTAGAAAAATAAAAAATTTCCA

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FIGURE 4864

GGGCGGACGGCACAGAGGGAGGGAGCGAGCGAGCAGTGAGTAAGCCAGCAAGGGCGGTCCGGTCCCGAGGTCAGC
CGAGATTTCTCAGGTCCCTCCGGCCCCCTCCCTGGAGTCCACAGCGCCTCCGGTGTCCAGAGGATCGGACACGGC
CCGGCCCCGGCCATGGCCTCGTTGCTGAAGGTGGATCAGGAAGTGAAGCTCAAGGTTGATTCTTTTCAGGGAGCGGA
TCACAAGTGAGGCAGAAGACTTGGTGGCAAATTTTTTCCCAAAGAAGTTATTAGAACTTGATAGTTTTCTGAAGG
AACCAATCTTAAACATCCATGACCTAACTCAGATCCACTCTGACATGAATCTCCAGTCCCTGACCCCATTCCTC
TCACCAATAGCCATGATGGACTGGATGGTCCCCTTATAAGAAGCGAAGGTTGGATGAGTGTGAAGAAGCCTTCC
AAGGAACCAAGGTGTTTGTGATGCCCAATGGGATGCTGAAAAGCAACCAGCAGCTGGTGGACATTATTGAGAAAG
TGAAACCTGAGATCCGGCTGTTGATTGAGAAATGTAACACGCCTTCAGGCAAAGGTCCCTCATATATGTTTTGACC
TCCAGGTCAAAATGTGGGTACAGCTCCTGATTCCCAGGATAGAAGATGGAAACAACCTTGGGGTGTCCATTTCAGG
AGGAAACAGTTGCAGAGCTAAGAACTGTTGAGAGTGAAGCTGCATCTTATCTGGACCAGATTTCTAGATATTATA
TTACAAGAGCCAAATTGGTTTTCTAAAAATAGCTAAATATCCCCATGTGGAGGACTATCGCCGCACCGTGACAGAGA
TTGATGAGAAAGAATATATCAGCCTTCGGCTCATCATATCAGAGCTGAGGAATCAATATGTCACTCTACATGACA
TGATCCTGAAAAATATCGAGAAGATCAAACGGCCCCGGAGCAGCAATGCAGAGACTCTGTACTGAGGCCAGGGCC
AGGGCCAGGGGACTCTGTGAGTCTGGCTCAAGACCGACATTGCCTTGGTTTGTACATGACTATCGTGATGGGGA
AACTGGCTGGAAATAGTAATCACACCTCTCTGTTTTTAGTTAGAGTCTAATGAACTCTCATCTAGTTCTGTGAT
GTGTTTACCTCTTTTTTTCAGGCCTCAGGAACCTCTTATTTCCCTTCCCTAATACCCACACCCAACCTGTCTGTA
TTTTCTGGAGAACTCCAGGTTTGTGTGTGCAGGATGTTGGCACAAAAATACCTGTGTTTTTATTCTCCCCCTCTCT
CCCTCCTGTGTCTTGCCTTTATGTTTTCTTCCGTTTGATAATTAGTTGGTTAAAGCTGAGGGAACCGGAAGGA
AAGTGCTAGGTGTTTTTTAGGAACTAGGGTGGCGGGGGACGAACCTCTCTTCTCCTCACATGAGGTTACTGTTTCT
TTCCTCTGTGGGCATTGGATCCTCCCACAGTTGCCCTGGTGATGACTTAGGGCTTCCCATCTGTGTACATCCCA
CTTTGAATCTTGATCGTGACAAGAAATACCTTAGGCCTTCAGTCAATTCCGAAGCTCCTTCAGTTGTTTTTATAA
TGGGCGTTTTTACATGCACATATGTGTATGCATGTATACGCCATACAGACATGCACACACAGACTCCTACTCCA
TTAGCTAACATACCCTCCCTCTCCACAACCCCTGTACATACCTTTTCAGGAGGTGACAGTTGTCTTAGTTGTCT
CTACCCAGACAAACGTCTTGGGCCCGTCTCCCTCCTGATAGTGTAGCCTCTTGGTACCCAGGGTGAGTTGGTGG
AGAACAGAGAGATGAGAAGCAGAGGGCTTGGGGAAAGCCTGTTTCTCTCTGACTCAGCCCTTTTTTGGCATTATTG
CAAGAGCTTGACTCCTGGTTGCCTTTTCCCAGCCAGTTTTCAGTTGGGGTGAAGGTTTCTGCAAGTGTGAGGTCC
AGATGCTGCTGCTCATGTTGGGCTTTTCTTTTGGGAACTATTTCTCTTTATTTATAGTGTGGGCTTCCGGGGAA
AGCAATCATTGGTGTGTATGTGTATGTGCATGCACACACGTGCATATACACATTTGTGTATGTGGAAATGTGCTG
GGCAAGTCAAACTATAGAAGAGTTGCCTCCTGTCTCTCGAATCTTCCAGAGATATCACTTAATTGTTAACAGCT
TTTGTGTTAATCCCTTTCAGCCCTAGCTCTTTTATTCTACCACGGCTGGAGAGTTGATACCTGCAGTCAGCCTG
CCAGTGACTCTTAGTGTCTGTTTCTGACTTATTTTTCTGTCTCTGTCTTCCAACCCCCAATAATATTCCACCG
GGGATGCATCATTTTTTACTCCCAATATTCTGTAGAGAGGGAGTCAGGATGCTGTCTTCCCACGAATAGTACTCAG
TAACAAACCAATTGCATTTTAGTTGGGCAGTGCTCCCACCCACCCCTCCAGATCCCTTCCAGCTAAAACCCCTCCC
CCTTCCCTCCATGTGTTTCTCAGTTTCCCGTTTCGTTTGTGTTGGACTGTTTCCACTGCCCCCTCCTCCTACCCTATC
ACCCATGGATCGTAATGTAAAATTCTTTTACCATGTCAAGAAATTATTAAAAATACAGGTACTTTGACCTCTTTC
TAAAGCCGCAGACCCTGGTGAATGCTCTGGTGGCTAGGGATGTACTCATGCTCATATGTGTGCACGCTTGGACA
CCCACCTCCATGGACACCTAGCCACCCCTGTTGTGTGTCTTATGCCAGTTGAGCTGAATCTTTTCCCAGTATAG
TGGAAAGACTGAGGCTTCTGCCTACTGAGCAAGGTTGGGTGCTTCATTGTGTTAGTCTGAATTATGGGAAAGT
TAGCTCTTCCCAGACCTAAGCTGCCTTCTCTCCCTACTTTCAG

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FIGURE 4865

GCTGAAGACAGAGCGATGGTAGTTCTGGAGGCCTCGCTCCGGGGCCGACCCGAGGCCACAGTGCCTCCGCGGTAG
ACCGGACTTGGGTGACGGGCTCCGGGCTCCCGAGGTGAAGAGCATCGGGGGCTGAGGGATGGAAGGGTCTAAGAC
GTCCAACAACAGCACCATGCAGGTGAGCTTCGTGTGCCAGCGCTGCAGCCAGCCCCTGAAACTGGACACGAGTTT
CAAGATCCTGGACCGTGTCAACATCCAGGAACACAGCTCCATTACTTACCACAGCCCAGGCGAAACCAGGAGA
GACCCAGGAGGAAGAGACTAACTCAGGAGAGGAGCCATTTATTGAAACTCCTCGCCAGGATGGTGTCTCTCGCAG
ATTCATCCCCCAGCCAGGATGATGTCCACAGAAAGTGCCAACAGCTTCACTCTGATTGGGGAGGCATCTGATGG
CGGCACCATGGAGAACCTCAGCCGAAGACTGAAGGTCACTGGGGACCTTTTTGACATCATGTCCGGCCAGACAGA
TGTTGGATCACCCACTCTGTGAGGAATGCACAGATACTCTTTTAGACCAGCTGGACACTCAGCTCAACGTCCTGA
AAATGAGTGTGAGAACTACAAACGCTGTTTGGAGATCTTAGAGCAAATGAATGAGGATGACAGTGAACAGTTACA
GATGGAGCTAAAGGAGCTGGCACTAGAGGAGGAGAGGCTGATCCAGGAGCTGGAAGACGTGGAAGAAACCGCAA
GATAGTGGCAGAAAATCTCGAGAAGGTCCAGGCTGAGGCTGAGAGACTGGATCAGGAGGAAGCTCAGTATCGTTA
AGAATACAGTGAATTTAAACGACAGCAGCTGGAGCTGGATGATGAGCTGAAGAGTGTGAAAACAGATGCGTTA
TGCCCAGACGCAGCTGGATAAGCTGAAGAAAAACCAACGCTCTTTAATGCAACCTTCCACATCTGGCACAGTGGACA
GTTTGGCACAATCAATAACTTCAGGCTGGGTGCGCTGCCAGTGTTCCCGTGAATGGAATGAGATTAATGCTGC
TTGGGGCCAGACTGTGTTGCTGCTCCATGCTCTGGCCAATAAGATGGGTCTGAAATTTAGAGATACCGACTTGT
TCCTTACGGAACCATTCATATCTGGAGTCTCTGACAGACAAATCTAAGGAGCTGCCGTTATACTGTTCTGGGGG
GTTGCGGTTTTTCTGGGACAACAAGTTTGACCATGCAATGGTGGCTTTCCTGGACTGTGTGCAGCAGTTCAAAGA
AGAGGTTGAGAAAGGCGAGACACGTTTTTGTCTTCCCTACAGGATGGATGTGGAGAAAGGCAAGATTGAAGACAC
AGGAGGCAGTGGCGGCTCCTATTCCATCAAAACCCAGTTTAACTCTGAGGAGCAGTGGACAAAAGCTCTCAAGTT
CATGCTGACGAATCTTAAGTGGGGTCTTGCTTGGGTGTCCTCACAATTTTATAACAAATGACTTTTTTCTTAGG
GGGAGGTTTGCCTTAAAGGCTTTTAATTTTGTGTTTGCAAACATGTTTTAAATTAAATTCGGGTAATATTAA
ACAGTACATGTTTACAATACCAAAAAAGAAAAATCCACAAAAGCCACTTTATTTTAAATATCATGTGACAGAT
ACTTTCCAGAGCTACAACATGCCATCTATAGTTGCCAGCCCTGGTCAGTTTGATTCTTAACCCCATGGACTCCT
TTCCCTTTCTTCTCTGAAAAAACTAATTTAAATTTGCTTTCTTTTTTTTAACTGAGTTGAATTGAGATTGATG
TGTTTTCACTGGATTTTTATCTCTCTCAACTTCCTGCACTTAACAATATGAAATAGAACTTTTGTCTTTACTGA
GATGAGGATATGTTTGAGATGCACAGTTGGATAATGTGGGAAAATGACATCTAAGCTTTACCTGGTCACCATGTG
ATGTGATCAGATGCTTGAAATTTAACACTTTTCACTTGGTCTTATACTGAATGCCGACTCTGCTCTGTGTTAGA
GATATGAAATGGTGTGTTGATACTGTTTGAGACATTATGGAGAGATTTAATTATTTGTAATAAAAGATTTGCTGCA
GTCTGAAACTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4866

MEGSKTSNNSTMQVSFVCQRCSQPLKLDTSFKILDRVTIQELTAPLLTTAQAKPGETQEEETNSGEEFFIETPRQ
DGVSRRFIPPARMMSTESANSFTLIGEASDGGTMENLSRRLKVTGDLFDIMSGQTDVDHPLCEECDTLLDQLDT
QLNVTENECQNYKRCLEILEQMNEDDSEQLQMELKELALEEERLIQELEDVEKNRKIVAENLEKVQAEAERLDQE
EAQYQREYSEFKRQQLELDDELKSVENQMRYAQTQLDKLKKTNVFNATFHIWHSQGFGTINNFRGLRPSVPVEW
NEINAAWGQTVLLHALANKMGLKFQRYRLVPYGNHSTYLESLTDKSKELPLYCSGGLRFFWDNKFHAMVAFLDC
VQQFKEEVEKGETRFCLPYRMDVEKGKIEDTGGSGGSYSIKTQFNSEEQWTKALKFMLTNLKWGLAWVSSQFYNK

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FIGURE 4867

TTGGAGGTCCCCCTCCCCACTAAGTGCCTCTTTGCATAGCACCAGTCCCCACCCGCACGCTCTCTGGACCACTAC
AGCTGGACGGGCAATGGCGGGTCGGGGAGGCGCAGCACGACCCAATGGACCAGCTGCTGGGAACAAGATCTGTCA
ATTTAAGCTGGTTCTGCTGGGGGAGTCTGCGGTAGGCAAATCCAGCCTCGTCCTCCGCTTTGTCAAGGGACAGTT
TCACGAGTACCAGGAGAGCACAATTGGAGCGGCCCTTCCTCACACAGACTGTCTGCCTGGATGACACAACAGTCAA
GTTTGAGATCTGGGACACAGCTGGACAGGAGCGGTATCACAGCCTGGCCCCCATGTACTATCGGGGGGCCAGGC
TGCCATCGTGGTCTATGACATCACCAACACAGATACATTTGCACGGGCCAAGAAGTGGGTGAAGGAGCTACAGAG
GCAGGCCAGCCCCAACATCGTCATTGCACTCGCGGGTAACAAGGCAGACCTGGCCAGCAAGAGAGCCGTGGAATT
CCAGGAAGCACAAGCCTATGCAGACGACAACAGTTTGCTGTTTCATGGAGACATCAGCAAAGACTGCAATGAACGT
GAACGAAATCTTCATGGCAATAGCTAAGAAGCTTCCCAAGAACGAGCCCCAGAATGCAACTGGTGCTCCAGGCCG
AAACCGAGGTGTGGACCTCCAGGAGAACAACCCAGCCAGCCGGAGCCAGTGCTGCAGCAACTGAGCCCCCTTGC
CTGCCCCGCTGCCCCCGCCTCCTCCGCCTGAATGACCCGACTGGAATCCACTCTAACCAATCGCACTTAACGACTC
GGGCCACCACTGGGGGGGAGGGGGAGGGGTCCACCATGATTTCTCCATATAATTTTGATCATAGGCCGGAGTGA
GTCATTCCACCTGCACCTTTCTGTACAAATACTAATTCAATTTTAAGTCTTAAGTCACTTTTTTAATATATATGA
TCTTCTGCTCTTCCCACTTCCTCCCTTTTCTACTGCTCTCCCATTTTCCCTTGCTGGGAGTAGCCACATGCTCTT
GCCCCCAACCCTTGTATATGGGGACAGTGGGGTCAGTGCAGCTACCCCTTTCTTTCCCTCCTGCGGAACAGCGGA
CCCAGCAAGAGCATCCACATCCTCACTTTGTTTCGGAGTGGTCTTTGGTTTGGGCGGTGGGGCAGACCTTGGAAG
GGGCTTAGGAAGGGAGAGGCAGCTCTTCCTTCAGCTGGCTCTCATCAGGCTGCAGCCCCCTCCCGCTCCACCT
CCCTGCTGGGAAACCACAGCATTATCACAGCATTATTGTGACAGCCACGAACCCATTGCCACAACCCCTCCACC
CTCGGTACCCCAACCTCTGGCTCTGAGCCCTGTTCTGACCAAATCATGATGATGAGTATTTGGGGGTGGGTGGG
TAAGGGGGGGAGTGGGAGGGGACGGAACCAACTTTTTCTGTATTTTGTATTGTATGTTTTCTTCAACATGTAACC
AATCAGTATCTTGTCAATATAGTCAGCCGATCGATCGACCTC

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FIGURE 4868

MAGRGGGAARPNGPAAGNKICQFKLVLLGESAVGKSSLVLRVKGQFHEYQESTIGAAFLTQTVCLDDTTVKFEIW
DTAGQERYHSLAPMYRGAQAIVVYDITNTDTFARAKNWKELQRQASPNIVIALAGNKADLASKRAVEFQEAQ
AYADDNSLLFMETSAKTAMNVNEIFMAIAKKLPKNEPQNATGAPGRNRGVDLQENNPASRSQCCSN

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FIGURE 4869

CCGCTCTCCGCTGCGGGGGAGGCCATGGCGGAACCTTCCCAGGCCCGACCCCGGCCCGGCTGCGCAGCCCCGG
CCCCCTTCAGTCCCCAGCCCCGCCCCAACTCCGACTCCTGCACCCAGCCCGGCTTCAGCCCCGATTCCGACTCCC
ACCCCGGCACCAGCCCCCTGCCCCAGCTGCAGCCCCAGCCGGCAGCACAGGGACTGGGGGGCCCCGGGGTAGGAAGT
GGGGGGGGCCGGGAGCGGGGGGATCCGGCTCGACCTGGCCTGAGCCAGCAGCAGCGCGCCAGTCAGAGGAAGGCG
CAAGTCCGGGGGCTGCCGCGCGCCAAGAAGCTTGAGAAGCTAGGGGTCTTCTCGGCTTGCAAGGCCAATGAAACC
TGTAAGTGTAATGGCTGGAAAAACCCCAAGCCCCCACTGCACCCCGCATGGATCTGCAGCAGCCAGCTGCCAAC
CTGAGTGAGCTGTGCCGCAGTTGTGAGCACCCCTTGGCTGACCACGTATCCCACTTGAGAGATGTGTGTCAGAGGAT
GAGATAAACCGACTGCTGGGGATGGTGGTGGATGTGGAGAATCTCTTCATGTCTGTTTCAAGGAAGAGGACACA
GACACCAAGCAGGTCTATTTCTACCTCTTCAAGCTACTGCGGAAATGCATCCTGCAGATGACCCGGCCTGTGGTG
GAGGGGTCCCTGGGCAGCCCTCCATTTGAGAAACCTAATATTGAGCAGGGTGTGCTGAACCTTGTGTCAGTACAAG
TTTAGTCACCTGGCTCCCCGGGAGCGGCAGACGATGTTTCAGCTCTCAAAGATGTTCTTGCTCTGCCTTAACCTAC
TGGAAGCTTGAGACACCTGCCAGTTTCGGCAGAGGTCTCAGGCTGAGGACGTGGCTACCTACAAGGTCAATTAC
ACCAGATGGCTCTGTTACTGCCACGTGCCCCAGAGCTGTGATAGCCTCCCCCGCTACGAAACCACTCATGTCTTT
GGGCGAAGCCTTCTCCGGTCCATTTTACCCTTACCCGCCGGCAGCTGCTGGAAAAGTTCCGAGTGGAGAAGGAC
AAATTGGTGCCCGAGAAGAGGACCCCTCATCCTCACTCACTTCCCCAAATTCCTGTCCATGCTGGAGGAGGAGATC
TATGGGGCAAACCTCTCCAATCTGGGAGTCAGGCTTACCATGCCACCCTCAGAGGGGACACAGCTGGTTCCCCGG
CCAGCTTCAGTCAGTGCAGCGTTGTTCCAGCACCCCATCTTCAGCCCCAGCATGGGTGGGGGCAGCAACAGC
TCCCTGAGTCTGGATTCTGCAGGGGCCGAGCCTATGCCAGGCGAGAAGAGGACGCTCCCAGAGAACCTGACCCTG
GAGGATGCCAAGCGGCTCCGTGTGATGGGTGACATCCCCATGGAGCTGGTCAATGAGGTGCTGCTGACCATCACT
GACCCTGCTGCCATGCTGGGGCCTGAGACGAGCCTGCTTTCGGCCAATGCGGGCCGGGATGAGACAGCCCGCCTG
GAGGAGCGCCGCGGCATCATCGAGTTCCATGTCTCGGCAACTCACTGACGCCCAAGGCCAACCGGCGGGTGTG
CTGTGGCTCGTGGGGCTGCAGAATGTCTTTTCCACCAGCTGCCGCGCATGCCTAAGGAGTATATCGCCCGCCTC
GTCTTTGACCCGAAGCACAAGACTCTGGCCTTGATCAAGGATGGGCGGGTCATCGGTGGCATCTGCTTCCGCATG
TTTCCACCCAGGGCTTCACGGAGATTGTCTTCTGTGCTGTACCTCGAATGAGCAGGTCAAGGGTTATGGGACC
CACCTGATGAACCACCTGAAGGAGTATCATCAAGCACAACATTCTCTACTTCCCTACCTACGCCGACGAGTAC
GCCATCGGCTACTTCAAAAAGCAGGGTTTCTCCAAGGACATCAAGGTGCCAAGAGCCGCTACCTGGGGCTACATC
AAGGACTACGAGGGAGCGACGCTGATGGAGTGTGAGCTGAATCCCCGCATCCCCTACACGGAGCTGTCCACATC
ATCAAGAAGCAGAAAGAGATCATCAAGAAGCTGATTGAGCGCAAACAGGCCCAGATCCGCAAGGTCTACCCGGGG
CTCAGCTGCTTCAAGGAGGGCGTGAGGCAGATCCCTGTGGAGAGCGTTCTTGGCATTTCGAGAGACAGGCTGGAAG
CCATTGGGGAAGGAGAAGGGGAAGGAGCTGAAGGACCCCGACCAGCTCTACACAACCCCTCAAAAACCTGCTGGCC
CAAATCAAGTCTCACCCAGTGCCTGGCCCTTCATGGAGCCTGTGAAGAAGTCGGAGGCCCCCTGACTACTACGAG
GTCATCCGCTTCCCCATTGACCTGAAGACCATGACTGAGCGGCTGCGAAGCCGCTACTACGTGACCCGGAAGCTC
TTTGTGGCCGACCTGCAGCGGGTCATCGCCAACGTGCGGAGTACAACCCCCCGACAGCGAGTACTGCCGCTGT
GCCAGCGCCCTGGAGAAGTTCTTCTACTTCAAGCTCAAGGAGGGAGGCCTCATTGACAAGTAGGCCCATCTTTGG
GCCGCAGCCCTGACCTGGAATGTCTCCACCTCGGATTCTGATCTGATCCTTAGGGGGTGCCCTGGCCCCACGGAC
CCGACTCAGCTTGAGACACTCCAGCCAAGGGTCTCCGGACCCGATCCTGCAGCTCTTTCTGGACCTTCAGGCAC
CCCCAAGCGTGAGCTCTGTCCCAGCCTTCACTGTGTGTGAGAGGTCTCCTGGGTGGGGCCAGCCCCCTCTAGA
GTAGCTGGTGGCCAGGGATGAACCTTGCCAGCCGTGGTGGCCCCCAGGCCTGGTCCCCAAGAGCTTTGGAGGCT
TGGATTCTGGGCTGGCCAGGTGGCTGTTTCCCTGAGGACCAGAACTGCTCATTTTAGCTTGAGTGATGGCTT
CAGGGGTGGAAGTTAGCCCCAACTGAAGGGGGCCATGCCTTGTCCAGCACTGTTCTGTGAGTCTCCCCAGGG
GTGGGGGGTATGGGGACCATTCAATCCCTGGCATTAAATCCCTTAGAGGGAATAATAAAGCTTTTTATTCTCTG

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FIGURE 4870

MAEPSQAPTPAPAAQFRPLQSPAPAPTPTPAPSPASAPIPTPTPAPAPAPAAAPAGSTGTGGPGVGSGGAGSGGD
PARPGLSQQQRASQRKAQVRGLPRAKKLEKLGVSACKANETCKCNGWKNPKPPTAPRMDLQQPAANLSELCRSC
EHPLADHVSHLENVSEDEINRLLGMVVDVENLFMSVHKEEDTDTKQVYFYLFKLLRKCILQMRPVVEGSLGSPP
FEKPNIEQGVLFNFVQYKFSHLAPRERQTMFELSKMFLLCLNYWKLETPAQFRQRSQAEDVATYKVNYTRWLCYCH
VPQSCDSLPRYETTHVFGRSLLRSIFTVTRRQLEKFRVEKDKLVPEKRTLILTHFPKFLSMLEEEIYGANSPIW
ESGFTMPPSEGTQLVPRPASVSAAVVPSTPIFSPSMGGGSNSSLSDSAGAEMPMPGEKRTLPENLTLLEDAKRLRV
MGDIPMELVNEVMLTITDPAAMLGPETSLLSANAARDETARLEERRGII EFHVIGNSLTPKANRRVLLWLVLGLQN
VFSHQLPRMPKEYIARLVFDPKHKTALIKDGRVIGGICFRMFPTQGFTEIVFCAVTSNEQVKGYGTHLMNHLKE
YHIKHNILYFLTYADEYAIGYFKKQGFSDIKVPKSRYLGYIKDYEGATLMECELNPRIPYTELSHIIKKQKEII
KKLIERKQAQIRKVYPGLSCFKEGVRQIPVESVPGIRETGWKPLGKEKGKELKDPDQLYTTTLKNLLAQIKSHPSA
WPFMEPVKKSEAPDYEVIRFPIDLKTMTERLRSRYVTRKLFVADLQRVIANCREYNPPDSEYCRCASALEKFF
YFKLKEGGLIDK

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FIGURE 4871

GGCACGAGGCGCGAGCTCGGAGGGCCCCGGCTGGTGCTGCGGGGGCCCCGGGAGGTTGAAAAC TAAGCATGGGGAA
GAGCTGCAAGGTGGTCGTGTGTGGCCAGGCGTCTGTGGGCAAACTTCAATCCTGGAGCAGCTTCTGTATGGGAA
CCATGTAGTGGGTTTCGGAGATGATCGAGACGCAGGAGGACATCTACGTGGGCTCCATTGAGACAGACCGGGGGGT
GCGAGAGCAGGTGCGTTTTCTATGACACCCGGGGGCTCCGAGATGGGGCCGAAGTGCCCCGACACTGCTTCTCTTG
CACTGATGGCTACGTCTCTGGTCTATAGCACAGATAGCAGAGAGTCTTTTCAGCGTGTGGAGCTGCTCAAGAAGGA
GATTGACAAATCCAAGGACAAGAAGGAGGTCAACATCGTGGTCTTTGGCAACAAGTGTGACTTACAGGAGCAGCG
GCGTGTAGACCCAGATGTGGCTCAGCACTGGGCCAAGTCAGAGAAGGTGAAGCTGTGGGAGGTGTCAGTGGCGGA
CCGGCGCTCCCTCCTGGAGCCCTTTGTCTACTTGGCCAGCAAGATGACGCAACCCCAAGAGCAAGTCTGCCTTCCC
CCTCAGCCGGAAGAACAAGGGCAGCGGCTCCTTGGATGGCTGAAGAGCTGCCGTTCTCTTTTACGATCCCAGCC
CCATTTTCACTGTCTGGGGCTCTGGTAGATGTGTTGAGGGCAAAGTAGAGGACAAGCTGTCTTTCCCAGTCAGCCA
GGGAGCTCCCCGCCAGGCCACGCCCCAGCCACTTTGCTCCCTCTCACCTCTGGGAAGTGCAAATACTCTTGTTG
ACATCCCCTTCTCAGCCCTCCCAGCCTACTCCCCATCCCAGCTTTTAGAGGATCTGCTCCACTGTCTCCTGGGG
CAGTTGTGGGTCACTGTCCCTTCCAGCTGCCCCAGACAGGAAGCAGAGTCACCACGCAGCAGTGTCCCTTCTTGG
GTCTGAGTTCTATTATAGGTAGGGGCCCCACCCTCTGGGCTTCCCATCAGCGACACACACACTTATGGCACC
AGCCTGGACTCCAGAAAAAGGGTGTCCAGGTATTGTGTGTATGCATTTAGTTGTGCACACACAAATATGCTCCTA
TACTGGCATTAGGCGTCTCCTCATCCCTCACCTTGACCTTTCTCCTGTCTTTTCTTGGCTGGAAGAAGTTGGCC
TCCTGGGAGTGTAGTTTTCTGTTTTAAATCCCCCACCCTGGCTGGGCTCAGTGGCTCACCCCTGTAATCCCAGC
ACTTTGGGAGGCCAAGGCGGGTCGATTACTTGAGGTGAGGAGTTACGACCAGCCTGGCCAACATTGTGAAACCC
CATCTCTGCCAAAAATACAAAAGTTAGCCGGGCGTAGTGGCACATGCCTGTAATCCCAGCTACCCGGGGAGGCTG
AGGCAGGAGAATTGCTTGAAGTCAAGAGGCGGAGGCTGCAGTGAGCCGAGATCGTGCCACTGCACTCCAGCCTGG
TCAACAGAGCAAGACTCCATCTCGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4872

MGKSCKVVVCGQASVGKTSILEQLLYGNHVVGSEMIETQEDIYVGSJETDRGVREQVRFYDTRGLRDGAELPRHC
FSCTDGYVLVYSTDSRESFORVELLKKEIDKSKDKKEVTIVVLGNKCDLQEQRRVDPDVAQHWAKSEKVKLWEVS
VADRRSLLEPFVYLASKMTQPQSKSAFPLSRKNKGSGSLDG

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FIGURE 4873

GGGAAGATGGCGGCTGTCTGAAGCGGCTGCAGAGCCGGTAACGGTGGTGGCGGCTGTTGGGCCAAAGGCGAAAGAC
GAAGAGGAGGAGGAAGAGGAGCCGCTGCCACCGTGCGAGGCGGTGCGCTGGGCCCCAGTGGGGCGGTGGCGGAG
GCCCCGGCTGGGGCAACCGCGTTTTTAGAAGAGGCGACGGCCGAGGAGCCTGGCGCGGCCCGGGCTCCCCGCGG
GATTCGCCGGGGCCGACGCTGCGGCGGCTGCGGGCAGAGCGGCGGCGGCTGGACTCGGCGCTGCTGGCGCTGTCC
TCGCACTTCGCGCAGGTGCAGTTCCGCCTGCGCCAGGTGGTGC GCGGGGCGCGGCGGAGCAGCAGCGCCTTCTG
CGGGAGCTCGAAGACTTCGCCTTCGCGGCTGCCCTCACGTCTAGGTTACGAAGGGCCCGGCGACCCCGCCAGC
GATGAGGGCGATGGGCTGCCAGGGGACCGGCCATGGTTGCGGGGCGAGGACCAGAGTGAGCAGGAAAAGCAAGAG
CGTCTGGAAACCCAAAGGGAGAAGCAGAAAGAACTGATACTGCAGCTCAAGACCCAGCTAGATGACCTGGAAACG
TTTGCTATCAAGAGGGCAGTTATGACTCGCTGCCACAGTCCGTGGTGTGGAAAGACAGCGGGTGATCATAGAT
GAGTTAATAAAGAACTGGACATGAATCTGAATGAGGACATCAGTTCCTGTCCACTGAAGAGCTTCGTCAGCGT
GTAGATGCAGCAGTGGCTCAGATCGTCAACCCAGCCGAGTCAAAGAACAGTTGGTTGAGCAACTGAAAACCTCAG
ATCCGAGACCTTGAGATGTTTATCAACTTCATCCAAGATGAAGTGGGAAGCCCCCTGCAGACAGGTGGTGGACAC
TGTGAGTGCAAGGCCGTTGGGAAGACAGGAAATGGCTGCAGCAGAACAGGCAGCAGCAGAACGCCTCCAGGAAAC
AGCAAAACAAAGGCAGAGGATGTGAAGAAAGTCCGGGAGACGGGGCTGCACCTGATGCGGCGAGCGCTGGCCGTG
CTCCAGATCTTTGCTGTTAGCCAGTTTGTTGTGCCACAGGCCAGATCCCTCCAACCCGTGGGCGAGGGTCCAG
GCTGACAGAGACTACTCTCCCTTGCTGAAGAGGCTGGAGGTGTCAGTGGACAGAGTGAAGCAGCTAGCCTTGAGG
CAGCAGCCACATGACCATGTCATCACCTCTGCCAACCTCCAGGACCTCTCTCTGGGAGGCAAGGATGAGCTGACT
ATGGCTGTGCGGAAGGAGCTAACGGTGGCTGTGAGGGACCTGCTGGCCCATGGACTGTATGCCCTCCTCCCCAGGG
ATGAGCCTTGTTATGGCTCCTATTGCTTGTTTGCTGCCAGCCTTCTCCTCGGCCCCAGAGGCCATGCACCCGTGG
GAGCTCTTTGTAAAGTACTACCATGCTAAGAACGGCCGTGCTTATGTGGAATCCCCAGCCCCGAAGCTCTCCAG
TCCTTCGCCCTTCCTGTTACGGGAGGCACTGTTGTCACCCCCAAACAGAGCCTACTGACAGCCATCCACATGGTG
CTGACAGAGCATGACCCCTTTAAGCGCAGTGCAGACTCAGAATTGAAGGCCTTGGTGTGCATGGCACTGAATGAG
CAGCGTCTGGTGTCTGGGTGAACCTCATCTGCAAGTCCGGGTCACTCATCGAGCCTCACTACCAGCCCTGGAGC
TACATGGCACACACAGGCTTTGAGAGTGCCCTCAACCTGCTCAGTCGCCTCAGCAGCCTCAAGTTTAGCCTCCCT
GTAGATCTGGCTGTGCGCCAGCTCAAAAACATCAAAGATGCCTTTTGATGAGAGTGCCTTAACCCAGACAAGCT
CCTTGTTTCAGTAGGGATAGATGTGCTAGTCTTCTAGCATAGGAGCAAGGAATCAGAGGTGGGGTTAAAGGCATTT
TTCCAGACCCTGCTCAGGCAGTCGGCCAAATGAGTGCAAAGTCTGTTTTCCCCACCAACTTAGCTCTCGGAAAG
ATGTGCTGGAGGGACCCTCTTGTTAAGAAGGTTCTGCCAGGCCGGGCGCGGTGGCTCACACCTGTAATCCCAGCA
CTTTGGGAGGCCGAGGCGGGCGGATCACAAGGTCAGGAGTTCGAGACCATCCTGTCTAACACGGTGAAACCCCAT
CTCTACTAAAAATACAAAAAATTAGTCGGACATGGTGGCAGGCACCTGTAGTCCCAGCTACTCGGGAGGCTGAG
GCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGCACTGAGCCAAGATCGCGCCACTGCACTCCAGCCTGGGC
GACAGAGTGAGACTCCGTCTC

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FIGURE 4874

MAAVEAAAEPVTVVAAVGP KAKDEEEEEEEPLPPCEAVRWAPVGAVAEARPGATAFLEEATAEEPGAAPGSPPDS
PGRTLRLRAERRRLDSALLALSSHFAQVQFRLRQVVRGAPAEQQORLLRELEDFAFRGCPHVLGYEGPGDPASDE
GDGLPGDRPWL RGEDQSEQEKQERLETQREKQKELILQLKTQLDDLET FAYQEGSYDSL PQSVLERQ RVIIDEL
IKKLD MNLNEDISSLSTEELRQRVDAAVAQIVNPARVKEQLVEQLKTQIRDLEMFINFIQDEVGSPLQTGGGHCE
CKAGGKTGNGCSRTGSSRTPPGNSKTKAEDVKKVRETGLHLMRRALAVLQIFAVSQFGCATGQIPPTLWQRVQAD
RDYSPLLKRLEVSVD RVKQLALRQQPHDHVITSANLQDLSLGGKDELTMAVRKELTVAVRDLLAHGLYASSPGMS
LVMAPIACLLPAFSSAPEAMHPWELFVKYYHAKNGRAYVES PARKLSQSFALPVTGGTVVTPKQSLLTAIHMLT
EHD PFKRSADSELKALVCMALNEQRLVSWVNLICKSGSLIEPHYQPWSYMAHTGFESALNLLSRLSSLKFSLPVD
LAVRQLKNIKDAF

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FIGURE 4875

CTTCCCCAGCTGTGCACTCTCCATCCAGCTGTGCGCTCTCGTCGGGAGTCCCAGCCATGTCCGACGAGAGAGAGG
TAGCCGAGGCAGCGACCGGGGAAGACGCCTCTTCGCCGCTCCGAAAACCGAGGCAGCGAGCGACCCCCAGCATC
CCGCGGCCTCCGAAGGGGCGCGCCGCCGCCGCTCGCCGCCACTGCTGCGCTGCCTAGTGCTCACC GGCTTTG
GAGGCTACGACAAGGTGAAGCTGCAGAGCCGGCCGGCAGCGCCCCCGGCCCTGGGCCCCGGCCAGCTGACGCTGC
GTCTGCGGGCCTGCGGGCTCAACTTCGCAGACCTCATGGCTAGGCAGGGGCTGTACGACCGTCTCCCGCCTCTGC
CTGTCACTCCGGGCATGGAGGGCGCGGGTGTGTGATCGCAGTGGGCGAGGGAGTCAGCGACCGCAAGGCAGGAG
ACCGGGTGATGGTGTGAACCGGTCAGGGATGTGGCAGGAAGAGGTGACTGTGCCCTCGGTCCAGACCTTCCTGA
TTCCTGAGGCCATGACCTTTGAGGAAGCTGCTGCCCTGCTCGTCAATTACATTACAGCCTACATGGTCCTCTTTG
ACTTCGGCAACCTACAGCCTGGCCACAGCGTCTTGGTACACATGGCTGCAGGGGGTGTGGGTATGGCTGCCGTGC
AGCTGTGCCGTACAGTGGAGAATGTGACAGTGTTCGGAACGGCCTCGGCCAGCAAGCACGAGGCACTGAAGGAGA
ATGGGGTCACACATCCCATCGACTATCACACGACTGACTACGTGGATGAGATCAAGAAGATTTCCCTAAAGGAG
TGGACATTGTATGGACCTCTGGGTGGGTGAGATACTGCCAAGGGCTACAACCTCCTGAAACCCATGGGCAAAG
TCGTACCTATGGAATGGCCAACCTGCTGACGGGCCCCAAACGGAACCTGATGGCCCTGGCCCGGACATGGTGGA
ATCAGTTCAGCGTGACAGCTCTGCAGCTGCTGCAGGCCAACCGGGCTGTGTGTGGCTTCCACCTGGGCTACCTGG
ATGGTGAGGTGGAGCTGGTCACTGGTGTGGTGGCCCGCTCCTGGCTCTGTACAACAGGGCCACATCAAGCCCC
ACATTGACTCAGTCTGGCCCTTCGAGAAGGTGGCTGATGCCATGAAACAGATGCAGGAGAAGAAGAATGTGGGCA
AGGTCTCTCTGGTTCCAGGGCCAGAGAAGGAGAAGTTAGGGCAAGTGGCTGTGAGACCTAGAGACCAGCGAAGGG
AGAAGTTGGGAAGCTACGTTCTGTTGGCCACCAGACTTGCAATTCAGCCTCTGTATAATGCTCTGCCCTCCCTC
CCCCGAAGTTCTCTGTGGTGATGACCGCTCTCCCTGCCCTCCCCGCTTCCTGACCTCTGAAGAGGTTGGGAAG
TGACCATTGGATGTCTGGGCCCTGCCAAGGCGACAGGGAGGGTCAGAGGGAGGCGGGCTGCTTCTGCCCCAC
CCTTTCCCCGGGCCTGCTGTGCTGCTTTTGTGCCAAGGTTAGCCAGTCCCCCTGTTGTGTTCCATGTGCTTTCA
CCTCTGCCTCATCTTTCTCCTCCCGTCCCTGCCCGCCACCTCCCCAAAGAATTGAAACGTGAGCTCAGGATATGGG
GCCAATCTCTGTGAGTCCAGCATGTACCTGTCTCTCCCTAGTGTCCTTCAGCCTGGGCTGACCAGTGCCCGCT
CTGGGCTTGACCAGTTCCCAATCTCGTCTCTGTCCCCAACTTCTTAAGCACAAATTGGGCTTCTTCCATCTCCAG
GTTTTCTGCCATTCTTAACCAAGGCTGCCTCTTCCAACAGGGCGGGAATCAGACCTACTCCCCTAGGTCACAACT
CTGGGAAGGATACAGAGCCCCACCCTTCACTGAGTTCTCTGGATTGTGTTCTCAGTGCCTTAGCAACGAAAACCT
GTGCTTGTGTGTGTGTGGCGGCGGGGAGGGAGGATCCTGTTTCCACCTCCTTCTCCTCCCCTGTACTCCCCAGT
GCCTTCCTTGTCTGGTGGAGCTGGGGTTTCTCTCCTCCCCAGTCCCACAACACTGCCAAAAATCTGTGTATGTG
CCATTGGGTGGGGCAGCCCCAAGCCTCCTGGGGAGGCAGGGCAAAAACAGGTGCCCTCATCGTGGTCTGTGCCAT
GTCCCGTCTCTATGGTGGTTGAGGAGAAAGGCGGGGAAGCTTCCTCAGCCTTGAGATATGTGTGGCATTACTA
GCCAGAGCTCTGAAAGGCAGTGCTGTCTGTTTCTGTACTGGGACCAAAGTAAAAATCCAAGCACATTCCCCTTG
CAGTTAGGGGAGGCCCTACTGCCTTCTCAAAGCAGAGAGGCAGCTTATCAAATCAGCCCAAACTCTGTTTACA
TGGGTGGGGAGATGGAGCAGGGAAGTACAGAGTGGGATGGTCAGGACCTGGGCCATTGCAACCAAAATGGGGACT
TCCTGGGTAGGGAGGTCACTCCCTCTACTCACTGAGCTAGGATTAGGGAGGGTTATTGCCCCAACCATTGCAATG
GGAGGTGGAGGGACAGGCTCAGCCTCCTCATTGTCTAAATGAGGCCTAAATGTGTGAAGTGCGATTTCTGCTTTT
GTGTACCCACCACCCCATACCACAGCTGCCTTTGTGTGTTTGTGTCAATAAAAAGCCAAACCCTGGGAAAAAA
AA

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FIGURE 4876

MSDEREVAEAAATGEDASSPPPKTEAASDPQHFAASEGAAAAAASPPLLRLVLTGFGGYDKVKLQSRPAAPPAPG
PGQLTLRLRACGLNFADLMARQGLYDRLPPLPVTTPGMEGAGVVIAGGEGVSDRKAGDRVMVLNRSGMWQEEVTVP
SVQTFLLIPEAMTFEEAAALLVNYITAYMVLFDFGNLQPGHSLVHMAAGGVGMAAVQLCRTVENVTVFGTASASK
HEALKENGVTHTPIDYHTTDYVDEIKKISPKGVDIVMDPLGGSDTAKGYNLLKPMGKVVTYGMANLLTGPKRNLM
LARTWWNQFSVTALQLLQANRAVCGFHLGYLDGEVELVSGVVARLLALYNQGHKPHIDSVWPFEEKVADAMKQMQ
EKKNVGKVLLVPGPEKEN

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FIGURE 4877

ATGGAGGGGCAGAGCGGCCGCTGCAAGATCGTGGTGGTGGGAGACGCAGAGTGCGGCAAGACGGCGCTGCTGCAG
GTGTTGCGCCAAGGACGCCTATCCCGGGAGTTATGTCCCCACCGTGTTTGAGAACTACACTGCGAGCTTTGAGATC
GACAAGCGCCGCATTGAGCTCAACATGTGGGACACTTCAGGTTCCCTCTTACTATGATAATGTCCGGCCTCTGGCC
TATCCTGATTCTGATGCTGTGCTCATCTGCTTCGACATTAGCCGACCAGAAACACTGGACAGTGTTCTCAAGAAG
TGGCAAGGAGAGACTCAAGAGTTCTGCCCCAATGCCAAGGTTGTGCTGGTTGGCTGTAAACTGGACATGCGGACT
GACCTGGCCACACTGAGGGAGCTGTCCAAGCAGAGGCTTATCCCTGTTACACATGAGCAGGGCACTGTGCTGGCC
AAGCAGGTGGGGGCTGTGTCTTATGTTGAGTGCTCCTCCCGGTCTCTGAGCGCAGCGTCAGGGATGTCTTCCAT
GTGGCTACAGTGGCCTCCCTTGGCCGTGGCCATAGGCAGCTGCGCCGAACTGACTCACGCCGGGGAATGCAGCGA
TCCGCTCAGCTGTCAGGACGGCCAGACCGGGGAATGAGGGCGAGATACACAAGGATCGAGCCAAAAGCTGCAAC
CTCATGTGA

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FIGURE 4878

MEGQSGRCKIVVVGDAECGKTALLQVFAKDAYPGSYVPTVFENYASFEIDKRRIELNMWDTSGSSYYDNVRPLA
YPDSDAVLICFDISRPETLDSVLKKWQGETQEFCPNAKVVLVGCKLDMRTDLATLRELSKQRLIPVTHEQGTVLA
KQVGAVSYVECSSRSSERSVRDVFHVATVASLGRGHRQLRRTDSRRGMQSAQLSGRPDRGNEGEIHKDRAKSCN
LM

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FIGURE 4879A

GGCGGAAGCACGATCTCCGGCAGCGGCCTGGGAACCTCTTAGCTGAGCAGGCGAGAGCATCATGGATACCGACTTA
TATGATGAGTTTGGGAATTATATTGGACCAGAGCTTGATTCTGATGAAGATGATGATGAATTGGGTAGAGAGACC
AAAGATCTTGATGAGATGGATGATGATGACGACGACGATGACGTAGGAGATCATGACGATGACCACCCTGGGATG
GAGGTGGTGCTGCATGAGGACAAGAAGTACTACCCAACAGCCGAGGAGGTGTATGGTCCTGAGGTGGAGACCATA
GTTCAAGAGGAAGACACTCAGCCTCTCACAGAACCCATTATTAAGCCAGTGAAAACCAAGAAATTCACCTCTGATG
GAGCAGACATTACCTGTTACGGTGTATGAGATGGATTTCTTGGCGGATCTGATGGATAACTCAGAGCTCATCAGA
AATGTGACCCTTTGTGGACATCTCCACCATGGCAAGACATGTTTTGTGGATTGTTTAATTGAACAGACTCACCCG
GAAATCAGAAAGCGCTATGACCAAGATCTGTGCTATACTGACATCCTCTTCACAGAGCAAGAGAGAGGTGTAGGC
ATCAAAAGCACTCCTGTGACAGTGGTCTTGCCAGACACCAAGGAAAATCTTATCTCTTCAATATCATGGACACT
CCAGGACATGTGAATTTCTCTGATGAGGTACAGCTGGCTTGCGCATCTCAGATGGAGTGGTCTTTTTCATTGAT
GCTGCTGAGGGGGTGATGCTGAACACAGAGCGGCTGATCAAGCATGCGGTGCAGGAGAGGCTGGCAGTCACTGTG
TGCATCAACAAGATTGACCGGCTGATCCTGGAGCTGAAGCTGCCTCCAACCTGATGCTTATTACAAGCTGCGCCAC
ATTGTGGATGAGGTCAATGGATTAATAAGCAIGTATTCCACTGATGAGAACCTGATCCTTTCCCCACTCCTGGGT
AACGTCTGCTTCTCCAGCTCCCAGTACAGCATCTGCTTACGCTGGGCTCCTTTGCCAAGATCTATGCCGACACC
TTTGGTGACATTAATTACCAAGAATTTGCTAAAAGACTCTGGGGTGACATCTACTTCAACCTAAGACGCGAAAG
TTCACCAAAAAGGCCCAACTAGCAGCTCCCAGAGAAGTTTCGTGGAGTTTATCTTGGAGCCTCTTTATAAGATC
CTCGCCCAGGTTGTAGGTGACGTGGACACCAGCCTCCACGAGCCTAGACGAGCTTGGCATCCACCTGACGAAG
GAGGAGCTGAAGCTGAACATCCGCCCTTGCTCAGGCTGGTCTGCAAAAAGTTCTTTGGCGAGTTCACAGGCTTT
GTGGACATGTGTGTGCAGCATATCCCTTCTCCAAGGTGGGCGCCAAGCCCAAGATTGAGCACACCTACACCGGT
GGTGTGGACTCCGACCTCGGCGAGGCTATGAGTGACTGTGACCCTGATGGCCCCCTGATGTGCCACACTACTAAG
ATGTACAGCACAGATGATGGAGTCCAGTTTACAGCCTTTGGCCGGGTGCTGAGTGGCACCATTTCATGCTGGGCAG
CCTGTGAAGGTACTGGGGGAGAACTACACCCTGGAGGATGAGGAAGACTCCCAGATATGCACCGTGGGCGCCTT
TGGATCTCTGTGGCCAGGTACCACATCGAGGTGAACCGTGTCTCTGCTGGCAACTGGGTTCTGATTGAAGGTGTT
GATCAACCAATTGTGAAGACAGCAACCATAACCGAACCCCGAGGCAATGAGGAGGCTCAGATTTTCCGACCCTTG
AAGTTCAATACCACATCTGTTATCAAGATTGCTGTGGAGCCAGTCAACCCCTCAGAGCTGCCCAAGATGCTTGAT
GGCCTGCGCAAGGTCAACAAGAGCTATCCATCCCTCACCACCAAGGTGGAGGAGTCTGGCGAGCATGTGATCCTG
GGCACTGGGGAGCTCTACCTGGACTGTGTGATGCATGATTTGCGGAAGATGTACTCAGAGATAGACATCAAGGTG
GCTGACCCAGTTGTACGTTTTGTGAGACGGTGGTGGAAACATCCTCCCTCAAGTGCTTTGCTGAAACGCCTAAT
AAGAAGAACAAGATCACCATGATTGCTGAGCCTCTTGAGAAGGGCCTGGCAGAGGACATAGAGAATGAGGTGGTC
CAGATTACGTGGAACAGGAAGAAGCTGGGAGAGTTCTTCCAGACCAAGTACGATTGGGATCTGCTGGCTGCCCGT
TCCATCTGGGCTTTTGGCCCTGATGCGACTGGCCCCAACATTCTGGTGGATGATACTCTGCCCTCTGAGGTGGAC
AAGGCTCTTCTTGGTTTCAGTGAAGGACAGCATCGTTCAAGGTTTCCAGTGGGGAACCAGGGAGGGCCCCCTCTGT
GATGAATTGATTTCGAATGTCAAGTTTAAGATCCTGGATGCGGTGGTTGCCAGGAGCCCCCTGCACCGGGGCGGG
GGCCAGATCATCCCCACAGCCAGGAGAGTCTGCTACTCTGCCTTCTCATGGCTACTCCTCGTCTGATGGAGCCT
TACTACTTTGTAGAGGTCCAGGCCCCCTGCAGATTGCGTCTCTGCAGTTTATACCGTCTTGGCCAGGCGCAGGGGG
CACGTGACTCAGGATGCACCCATCCCAGGCTCCCCTCTGTACACCATCAAAGCTTTTATCCCGGCCATCGACTCT
TTTGGCTTTGAGACTGATCTCCGGACTCACACCCAGGGACAAGCCTTTTCTCTGTCTGTCTTCCACCACTGGCAG
ATTGTGCCTGGTGATCCCCTGACAAAGAGCATTGTATCCGCCCTTGGAGCCACAGCCAGTCTCTCACCTGGCC
CGGGAATTCATGATCAAAAACCCGCCGTAGGAAGGGCCTCAGTGAAGATGTGAGCATCAGCAAATTTCTTCGATGAT
CCTATGTTGCTGGAACCTTGCCAAACAGGATGTTGTGCTCAATTACCCCATGTGAGTGCGTGGACTCCTGGGAGCT
CCTGCTCCCTACAGTGGGCTGCAACTCCTGTACTTGAAGCTGAGACCTCATATGACGTGGCCTTCGTGTTGTGAG
AGAGTGTCTGGAAGCTGCTGTTGCCATCTTGAACAACCTACCAACCTCCAACCCAGAGCCCCAGTGAGAGAGGAG
CATTTGGCCTCCTGCTTCCCTCTGTGGCCTCTGCCGGGCTCCATTCCCAAGGAAAAGAGAGGAGCTTGGGCTCAC
AGAAAAGAGAAGGGGATGAAACCCCAAGGGGCCCTATCTTTGGGATTTACATGGAATTTTATTTTCTACAAGTTTG
ACCTTAGCCATGGTTTGAAGTGAACAGAACATTCTGACCTCTGTCTTGTCTGTCTCTTTCATCCTCGTCTCCC
CTGCCCCATCTGGTGCTTACATTCTGAATATATGTCATCTCCAAGAGGCTTCACTGCCTCTGCTTCCAGCTGCA
GCCTCCTTCTGCTGGGTCCCCAGGGAAGCCGCTGCCTTTTAATTCAAGTGTTCATGAGCGCCAAGGCCCA
TTATTGCCCCCTTGCTCCCACTCCATGCTGCTTCTGGGTGGGACCTAAGATGGCTTGGGAGTTGTTGGGTTCCCTG

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FIGURE 4879B

CGATCAGAAGTCTACCCACACCTCCTCAGGAACTGCTGCCTCCCCCTAAGAATCTTCCTTGCCCTGGAGTAGG
GGGCCAGAGCACTTTGATTCCAGCCATTTACTCCAAGTCCTCTCCCCAGCTACCACCAGTCCCTTACTCTGTTC
TCCCCAGTGAAAAAGAGTCTGTTGATTTTCCTC

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FIGURE 4880

AGAGCCAGAGCAGGATGGAGAGGAGACGCATCACCTCCGCTGCTCGCCGCTCCTACGTCTCCTCAGGGGAGATGA
TGGTGGGGGGCCTGGCTCCTGGCCGCCGTCTGGGTCTGGCACCCGCTCTCCCTGGCTCGAATGCCCCCTCCXA
CTCCCGACCCGGGTGGATTCTCCCTGGCTGGGGCACTCAATGCTGGCTTCAAGGAGACCCGGGCCAGTGAGCGG
GCAGAGATGATGGAGCTCAATGACCGCTTTGCCAGCTACATCGAGAAGGTTTCGCTTCTGGAACAGCAAAACAAG
GCGCTGGCTGCTGAGCTGAACCAGCTGCGGGCCAAGGAGCCCCACCAAGCTGGCAGACGTCTACCAGGCTGAGCTG
CGAGAGCTGCGGCTGCGGCTCGATCAACTCACCGCCAACAGCGCCCGGCTGGAGGTTGAGAGGGACAATCTGGCA
CAGGACCTGGCCACTGTGAGGCAGAAGCTCCAGGATGAAACCAACCTGAGGCTGGAAGCCGAGAACAACCTGGCT
GCCTATAGACAGGAAGCAGATGAAGCCACCCTGGCCCGTCTGGATCTGGAGAGGAAGATTGAGTCGCTGGAGGAG
GAGATCCGGTTCTTGAGGAAGATCCACGAGGAGGAGGTTGGGGAACCTCAGGAGCAGCTGGCCCGACAGCAGGTC
CATGTGGAGCTTGACGTGGCCAAGCCAGACCTCACCGCAGCCCTGAAAAGAGATCCGCACGCAGTATGAGGCAATG
GCGTCCAGCAACATGCATGAAGCCGAAGAGTGGTACCGCTCCAAGTTTGCAGACCTGACAGACGCTGCTGCCCGC
AACGCGGAGCTGCTCCGCCAGGCCAAGCACGAAGCCAACGACTACCGGCGCCAGTTGCAGTCTTGACCTGCGAC
CTGGAGTCTCTGCGCGGCACGAACGAGTCCCTGGAGAGGCAGATGCGCGAGCAGGAGGAGCGGCACGTGCGGGAG
GCGGCCAGTTATCAGGAGGCGCTGGCGCGGCTGGAGGAAGAGGGGCAGAGCCTCAAGGACGAGATGGCCCGCCAC
TTGCAGGAGTACCAGGACCTGCTCAATGTCAAGCTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGCTA
GAGGGCGAGGAGAACCGGATCACCATTCCCGTGCAGACCTTCTCCAACCTGCAGATTGAGAAACCAGCCTGGAC
ACCAAGTCTGTGTGTCAGAAGGCCACCTCAAGAGGAACATCGTGGTGAAGACCGTGGAGATGCGGGATGGAGAGGTC
ATTAAGGAGTCCAAGCAGGAGCACAAAGGATGTGATGTGAGGCAGGACCCACCTGGTGGCTCTGCCCCGTCTCAT
GAGGGGCCCCGAGCAGAAGCAGGATAGTTGCTCCGCTCTGCTGGCACATTTCCCCAGACCTGAGCTCCCCACCAC
CCCAGCTGCTCCCCCTCCCTCTGTCCCTAGGTCAGCTTGCTGCCCTAGGCTCCGTCACTATCAGGCCTGCCAG
ACGGCACCCACCCAGCACCCAGCAACTCCAACCTAACAAGAACTCACCCCCAAGGGGCAGTCTGGAGGGGCATGG
CCAGCAGCTTGCGTTAGAATGAGGAGGAAGGAGAGAAGGGGAGGAGGGCGGGGGGCACCTACTACATCGCCCTCC
ACATCCCTGATTCTGTTGTTATGGAACTGTTGCCAGAGATGGAGGTTCTCTCGGAGTATCTGGGAACTGTGCC
TTTGAGTTTCTCAGGCTGCTGGAGGAAAACCTGAGACTCAGACAGGAAAGGGAAGGCCCCACAGACAAGGTAGCC
CTGGCCAGAGGCTTGTTTTGTCTTTTGGTTTTATGAGGTGGGATATCCCTATGCTGCCTAGGCTGACCTTGAAC
TCCTGGGCTCAAGCAGTCTACCCACCTCAGCCTCCTGTGTAGCTGGGATTATAGATTGGAGCCACCATGCCAGC
TCAGAGGGTTGTTCTCCTAGACTGACCCCTGATCAGTCTAAGATGGGTGGGGACGTCTGCCACCTGGGGCAGTCA
CCTGCCCAGATCCCAGAAGGACCTCCTGAGCGATGACTCAAGTGTCTCAGTCCACCTGAGCTGCCATCCAGGGAT
GCCATCTGTGGGCACGCTGTGGGCAGGTGGGAGCTTGATTCTCAGCACTTGGGGGATCTGTTGTGTACGTGGAGA
GGGATGAGGTGCTGGGAGGGATAGAGGGGGGCTGCCTGGCCCCCAGCTGTGGGTACAGAGAGGTCAAGCCCAGGA
GGACTGCCCCGTGCAGACTGGAGGGGACGCTGGTAGAGATGGAGGAGGAGGAATTGGGATGGCGCTAGGCATAC
AAGTAGGGGTTGTGGGTGACCACTTGCACTTGGCCTCTGGATTGTGGGAATTAAGGAAGTGACTCATCCTCTTGA
AGATGCTGAAACAGGAGAGAAAGGGGATGTATCCATGGGGGCAGGGCATGACTTTGTCCCATTCTAAAGGCCTC
TTCCTTGCTGTGTATACACAGGCCGCCCCAGCCTCTGAGCCCCCTGGGACTGCTGCTTCTTAACCCCCAGTAAGCCA
CTGCCACACGTCTGACCCTCTCCACCCATAGTGACCGGCTGCTTTTCCCTAAGCCAAGGGCCTCTTGCGGTCCC
TTCTTACTCACACAAAAATGTACCCAGTATTCTAGGTAGTGCCCTATTTTACAATTGTAAAACCTGAGGCACGAG
CAAAGTGAAGACACTGGCTCATATTCTGTCAGCCTGGAGGCCGGGTGCTCAGGGCTGACACGTCCACCCCACTGC
ACCCACTCTGCTTTGACTGAGCAGACTGGTGAGCAGACTGGTGGGATCTGTGCCAGAGATGGGACTGGGAGGGC
CCACTTCAGGGTTCTCCTCTCCCCTCTAAGGCCGAAGAAGGGTCTTCCCTCTCCCCAAGACTTGGTGTCTTTC
CCTCCACTCCTTCTGCCACCTGCTGCTGCTGCTGCTAATCTTCAGGGCACTGCTGCTGCCTTTAGTCGCTG
AGGAAAAATAAAGACAAATGCTGCGCCCTT

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FIGURE 4881

CCTCTCTCCGGGCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGGCGTGCCAAAAAGGGCCGCGGCCA
CCTGCAACCTATTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTTCG
AAACATAGTGGAGGCCGCAACAGTCAGGGACATTTCTGAAGTGAGCGTCTTCGATGCCTATGTGCTTCCCAAAC
GTATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCG
CAAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCAGGTCCCCACCAAAGCCCATGTAAGG
AGCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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FIGURE 4882

MTKKRRNNGRAKKGRGHLQPIRWTNCARCVPKDKGIKKFVIRNIVEAATVRDISEVSVFDAYVLPKLYVKLHYCV
SCAIHSKVVRNRSREARKDRTPPPRFRPAGAAPGPPPKPM

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FIGURE 4883A

GGCACGAGGCTGCTCTCGCAACTCAAGATGGCGGACGAGAGTGAGACAGCAGTGAAGCCGCCGGCACCTCCGCTG
CCGCAGATGATGGAAGGGAACGGGAACGGCCATGAGCACTGCAGCGATTGCGAGAATGAGGAGGACAACAGCTAC
AACCGGGGTGGTTTGTAGTCCAGCCAATGACACTGGAGCCAAAAAGAAGAAAAAGAAAAAGAAAGAAAGAA
AAAGGCAGTGAGACAGATTTCAGCCCAGGATCAGCCTGTGAAGATGAACTCTTTGCCAGCAGAGAGGATCCAGGAA
ATACAGAAGGCCATTGAGCTGTTCTCAGTGGGTGACGGGACCTGCCAAAACCATGGAGGAGGCTAGCAAGCGAAGC
TACCAGTTCTGGGATACGCAGCCCGTCCCAAGCTGGGCGAAGTGGTGAACACCCATGGCCCCGTGGAGCCTGAC
AAGGACAATATCCGCCAGGAGCCCTACACCCTGCCCCAGGGCTTCACCTGGGATGCTTTGGACTTGGGCGATCGT
GGTGTGCTAAAAGAACTGTACACCCTCCTGAATGAGAATATGTGGAAGATGATGACAACATGTTCCGATTGTGAT
TATTCCCCGGAGTTTCTTTTGTGGGCTCTCCGGCCACCCGGCTGGCTCCCCCAGTGGCACTGTGGGGTTCGAGTG
GTCTCAAGTCGGAAATTGGTTGGGTTTCATTAGCGCCATCCAGCAAAACATCCATATCTATGACACAGAGAAGAAG
ATGGTAGAGATCAACTTCCTGTGTGTCCACAAGAAGCTGCGTTCCAAGAGGGTGTCTCCAGTTCTGATCCGAGAG
ATCACCAGGCGGGTTCACCTGGAGGGCATCTTCCAAGCAGTTTACACTGCCGGGGTGGTACTACCAAAGCCCGTT
GGCAGCTGCAGGTATTGGCATCGGTCCCTAAACCCACGGAAGCTGATTGAAGTGAAGTTCTCCACCTGAGCAGA
AATATGACCATGCAGCGCACCATGAAGCTCTACCGACTGCCAGAGACTCCAAGACAGCTGGGCTGCGACCAATG
GAAACAAAGGACATTCCAGTAGTGCACAGCTCCTCACCAGGTACTTGAAGCAATTTACCTTACGCCCGTCATG
AGCCAGGAGGAGGTGGAGCACTGGTTCTACCCCCAGGAGAATATCATCGACACTTTCGTGGTGGAGAACGCAAAC
GGAGAGGTGACAGATTTCCTGAGCTTTTATACGCTGCCCTCCACCATCATGAACCATCCAACCCACAAGAGTCTC
AAAGCTGCTTATTCTTTCTACAACGTTACACCCAGACCCCTCTTCTAGACCTCATGAGCGACGCCCTTGTCTCTC
GCCAAAATGAAAGGGTTTGATGTGTTCAATGCACTGGATCTCATGGAGAACAAAACCTTCCTGGAGAAGCTCAAG
TTTGGCATAGGGGACGGCAACCTGCAGTATTACCTTTACAATTGGAAATGCCCCAGCATGGGGGCGAGAGAAGGTT
GGACTGGTGTACAAATACCAAGTCACCAAGTGCGATTCTGGATAAAGCCACTGAAAATTCGAACCAGGAAATGGAA
CCCCACCACTGTTGGTCCAATTTTCACACACGTGAGAATCCCTGGCAAAGGGAGCAGAACTGAACCGGCTTTACC
AAACCGCCAGCGAACTTGACAATTGTATTGCGATGGCGTGGGCTGCGTGACGTCACCTCCGGTGTGTCTCTGGT
CTCCGTGTTTTCCAGTTAATTACATCCTCATGCAGCCGTGATCAAGGGAATGTAAGTCTGAAAAGTAGCTCGTG
ATTGGCATATAATGGAGTTAACGGGTGAATAATAAAGTATATATATATATATATATATATAAATATTTAAAT
ATCTTTCATGTTCCAAATGTACAAGGATGTTTGGTCTTTAATGAAAAGCTGAATCTAGATCATTCTCAGAATGA
GGACCCGAGGACAGTGGCAGACAGACGCGTTGGCACAGTTCATGGTTTTCTCCAGAGGAGACATTGGCTTATCAT
GGGGAAAAAGAGGATCTGGAGAACCTCATCCAGCTCCCTTCTGAATCAGCTGGGATGACTGGCTTTGAGAAGGA
AGGGAAGATGGAACAGGCTCAGATCTCATGGGATAGCACGTGGAGCTCTTGGCTGGGGCTGACCCTGGGCAGGGA
CTTTCCTGCAGGGCCAGACCTGCCTGCATTCTGAGACAAAGCAATGGACGGTCCGCAGAAGCAGACCTCATTGAT
TGAGTCCTTTCTTCCATCCCCCTTGGCTGCTCCCTGTAGGAAGTCATCCTGCCAACTGATTTAAAGGGCTCTTT
AGCCAGTTGTTGCCAACCTTATAGGGATGAGTCCCCTGTGAGATTTTGCTTTTCCACTGCCTGGGATGATGCAGT
TTGAAGAGGCCCTTGGACCTCCTTGTAACATCAGGGACCTTTGGAGACCATTATCAGTGTAAGCCCTGCTTAGCT
CATCTTAGAGCAAAGAGCCAGCACCCCTGATGTCCCTGGGGTGGCTAGGCAGGAGTGGCGTGGGGCCAATACCCAG
ACCCCTTCAGCCACCAGCCCCCTGGCCTGTGCCTTCCAACCCATTAGCCATTTCTTGTGTGCCCTTTCCAAGAT
ACAGCCTGCAAGTGGTAGCAAGAAGTGATTAGAGGCAGATCTGGACTTGGCAACAGAAGTGGTTTCCCATCTCCA
TTGTCTGAGTCTGATTTTTCGTGATGCTGTTTTGTGGATTTTTGTGGTAGTGATGGTTGTCAGTGCTGCCAGTTT
CCCAAAACGTAATCAAGCCTCTGGTCACATGGCTGTGATGTAGGCATTCTGGAGTGGTGTTCAGCCAAGTGACC
GGGCAAAATTGGGCTGTGAAATTGTACTTCCAGGCTTGGATGTAATTTTTGCTCTAGAGAGAAGCAAGTGGTGGG
AAGGAGGTAGCATGACGTGTGGTGTGCGGGTTTCTTGTGCGCTCACCTCTCCGCTCATAACAGGAATGAAGCCT
TAGCCAGGAGGCCAGGCTCAGCCCTGTGCCACTCACCGAAGCCACTTTCTACAGGCCAGCAGGGGCTTGTTCAG
GCTGTGGGTTTTGGTGTGGTTTTGTGAGGGCTAATTCTGCAGAGTTTCCAAAACCAGAAGACATCGTATGCTTGG
GATGGGGGCCGTGCCACCCGTGGGAATGCTGCCCGCTCTGCAGACTGCTGCTAGAGCCAGCAACTCCACTAAGGT
GGATTTTCATCAGGGGCTGCAGGGCCCTCCCTTTTCCCATTTGTTTCTGCGCTGCAAATTGCAGGCCCCAGCAAT
CGTGAAGTACGTTTGTCTTGTACTCCAAGAACTGAGACCAAAGAAGCTGCTGTTCTTAGCAAGATGCGCACTG
CATTCCACAGGTGGGAGGAGTCGGAGAGGCAGGGGCTTGTCTTGCAGCCCCACAGACAACAGTTGCACAGTGCCCT
CAAGCCCCAGAGTGGCTCACCTGTCCAGACCTTTGAGGATATCAAAGGACAAAGTGCCCAAGTCTTTCTACCT
TGGGGGAACCTGGAACCTTGAAAGGCTCCCTGTCTAGTCTTGATCTGTTCTGGGCCAGGTCCCAGCTTGAGCTG

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FIGURE 4883B

CCTCTGAGATTTGGGCTGTGCGGATCTCTGGAGTGAGCTCTGTTTCGGTTGACCCAGGTCATGGAATGGAAACGG
TGAGGCCCCAGTGCGCTGTTCTGGAAGAAACAGATCTCCTGGCAAAGGCCCCAGCATCTCCCTCACTGAAACCAGG
TGGCCGGCTCCTCGGACTCTGCTTTATGTTGCGGTGAGAACTCTGCCAGGTGTGCAGGGTTTGGCTTGTGGGCT
GCTTGCTGCTCATCTGATTTTGTCCCAGTAGTCCCTGCGTTCTTCATTCAACCCCTTCTGGGACTTCAGCTCAG
AGAGCACCATCCCGGGGGTCAGGGCCTCCCCACAGGAGCCCTGCAGTGTGGTAGCGCCATGGCTGTCTCAAACCA
AGCAAAGGAAGGACCCTGAGGCCTTCACGCTAACCATCCTCGAGCAACTGCTGTTGGAAGGCCTCCCTGGGCCTG
GCCCCACCCTCTGCCACCCAGTCCTCCAGCTGCCATGTTTCAAAGACGACCTTTACCTCCTGCCTTTGGATTG
ACTCTGCATTTGACCACGGACTCCAGTCTGTGTGTAGGGAGAGAGCTGAGTAGGAGGCCTCCACTCCGGATCGAG
GCCTGTATAGGGCTCGTTTCCCCACACATGCCTATTTCTGAAGAGGCTTCTGTCTTATTTGAAGGCCAGCCACA
CCCAGCTACTTTAACACCAGGTTTATGGAAAATGTCAGGCCTTCCCCACAACCTCCTGTCTAACTGCTGTCGCCCC
CCTACTTGCTGGCTCTCAGAAGCCTAGGGGAGTCCCTGTGGTCCTGAATTCTTTCCCCAAAGACGACCAGCATTT
AACCAACCTAAGGGCCCCAAAGGCCTTGGACAACCTGCATGGAGCTGCACTCTAGGAGAAGGAGGGGAACCAGATGT
TAGATCAGGGGAGGGAGCAGGAGTGTCCCTCCCGTCAGTGCCTACCCACCTGTGAGGCAGCCTTCTGATGGCCTG
GCCCACCTTCCCCAGAACCAGGGGAGGCCTGAGGCTTCAGTTTTACTCTGCTGCAAAATGAAGGCGGGCCTGCAA
GCCGACTACACCTACGGAGGCTGTTGAGGACAATTTATTCCATTAAATTAAAAAATACTGACTGGCTGGCAGGC
AGGTGCCATGTCTGGGAACAGGGACGGGGGAGCTTCACCTTTTTGTCTTGGCTTTTCTTTGGGCTGTGGGGGGGC
ATCCATTTCCAGGGTCGGGGAGGAAATACCAAATGCATTGTTGTTCTGCTCAATACATCTCACTTGTTCCTAATA
AAGAAAGCAGCTGAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4884

MADESETAVKPPAPFLPQMMEGNGNGHEHCSDCENEEDNSYNRGGLSPANDTGAKKKKKKQKKKKEKGSETDSAQ
DQPVKMNSLPAERIQEIQKAIELFSVGQGPAKTMEEASKRSYQFWDTPQVPKLGEVVNTHGPVEPKDNIRQEPY
TLPQGFTWDALDLGDRGVLKELYTLLNENYVEDDDNMFRFDYSPEFLLWALRPPGWLPGWHCGVRVSSRKLVGF
ISAIPANIHIDTEKKMVEINFLCVHKKLRSKRVPVLIREITRRVHLEGIFQAVYTAGVVLPKPVGTCTRYWHR
LNPRKLIEVKFSHLSRNMQMRTMKLYRLPETPKTAGLRPMETKDIPVVHQLLTRYLKQFHLTPVMSQEEVEHWF
YPQENIIDTFVVENANGEVTDFLSFYTLPTSTIMNHPHKSLSKAAYSFYNVHTQTPLLDLMSDALVLAKMKGFDVF
NALDLMENKTFLEKLKFGIGDGNLQYYLYNWKCPSMGAEKVGLVLQ

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FIGURE 4885

TTCGCTCGCCGCTCGCTCAGAGCCGGGGCCGGGCCAGAGCGGCGCCCCGCTGCCCTGTCCCCGCGTGCAGACCC
CGGGCCCCGGCCCCGGCCCCCGCCAAGCCATGCTGTGCGGCCGCTGGAGGCGTTGCCGCCGCCCGCCCCGAGGAGC
CCCCGGTGGCCGCCCAGGTGCGAGCCCAAGTCGCGGGCGCCGGTTCGCTCTCCCGTCCCCGCCGACTCCCTCCGATG
GCGGCACCAAGAGGCCCGGGCTGCGGGCGCTGAAGAAGATGGGCCTGACGGAGGACGAGGACGTGCGCGCCATGC
TGGGGGCTCCCGGCTCCGCAAGATCCGCTCGCGCACGTGGCACAAGGAGCGGCTGTACCGGCTGCAGGAGGACG
GCCTGAGCGTGTGGTTCCAGCGGCGCATCCCGCGTGCGCCATCGCAGCACATCTTCTTCGTGCAGCACATCGAGG
CGGTCCGCGAGGGCCACCAGTCCGAGGGCCTGCGGCGCTTCGGGGGTGCCTTCGCGCCAGCGCGCTGCCTCACCA
TCGCCCTCAAGGGCCGCCGCAAGAACCTGGACCTGGCGGCGCCACGGCTGAGGAAGCGCAGCGCTGGGTGCGCG
GTCTGACCAAGCTCCGCGCGCGCCTGGACGCCATGAGCCAGCGCGAGCGGCTAGACCACTGGATCCACTCCTATC
TGCACCGGGCTGACTCCAACCAGGACAGCAAGATGAGCTTCAAGGAGATCAAGAGCCTGCTGAGAATGGTCAACG
TGGACATGAACGACATGTACGCCTACCTCCTCTTCAAGGAGTGTGACCACTCCAACAACGACCGTCTAGAGGGGG
CTGAGATCGAGGAGTTCTTGC GGCGGCTGCTGAAGCGGCCGGAGCTGGAGGAGATCTTCCATCAGTACTCGGGCG
AGGACCGCGTGTGAGTGCCCCCTGAGCTGCTGGAGTTCTTGGAGGACCAGGGCGAGGAGGGCGCCACACTGGCCC
GCGCCAGCAGCTCATTAGACCTATGAGCTCAACGAGACAGCCAAGCAGCATGAGCTGATGACACTGGATGGCT
TCAIGATGTACCTGTTGTGCGCGGAGGGGGCTGCCTTGGACAACACCCACACGTGTGTGTTCCAGGACATGAACC
AGCCCCCTTGCCCACTACTTTCATCTCTTCTCCCAACACCTATCTGACTGACTCCCAGATCGGGGGGGCCAGCA
GCACCGAGGCCTATGTTAGGGCCTTTGCCAGGGATGCCGCTGCGTGGAGCTGGACTGCTGGGAGGGGGCCAGGAG
GGGAGCCCGTCATCTATCATGGCCATACCCTCACCTCCAAGATTCTTTCGGGACGTGGTCCAAGCCGTGCGCG
ACCATGCCTTACGCTGTCCCCCTTACCCTGTCTATCCTATCCCTGGAGAACCCTGCGGGCTGGAGCAGCAGGCTG
CCATGGCCCCGCACCTCTGCACCATCCTGGGGGACATGCTGGTGACACAGGCGCTGGACTCCCCAAATCCCGAGG
AGCTGCCATCCCCAGAGCAGCTGAAGGGCCGGGTCTTGGTGAAGGGAAGAAGTTGCCCGCTGCTCGGAGCGAGG
ATGGCCGGGCTCTGTGCGATCGGGAGGAGGAGGAGGAGGATGACGAGGAGGAAGAAGAGGAGGTGGAGGCTGCAG
CGCAGAGGCGGCTGGCCAAGCAGATCTCCCCGGAGCTGTGCGCCCTGGCTGTGTACTGCCACGCCACCCGCCTGC
GGACCCTGCACCCTGCCCCCAACGCCCCACAACCCTGCCAGGTGAGCTCCCTCAGCGAGCGCAAAGCCAAGAAAC
TCATTGGGAGGCAGGGAACAGCTTTGTGAGGCACAATGCCCGCCAGCTGACCCGCGTGTACCCGCTGGGGCTGC
GGATGAACTCAGCCAACTACAGTCCCCAGGAGATGTGGAACCTCGGGCTGTGAGCTGGTGGCCTTGAACCTTCAGA
CGCCAGGCTACGAGATGGACCTCAATGCCGGGCGCTTCTAGTCAATGGGCAGTGTGGCTACGTCTTAAACCTG
CCTGCCTGCGGCAACCTGACTCGACCTTTGACCCCGAGTACCCAGGACCTCCAGAACCACTCTCAGCATCCAGG
TGCTGACTGCACAGCAGCTGCCCAAGCTGAATGCCGAGAAGCCACACTCCATTGTGGACCCCTTGGTGCGCATTG
AGATCCATGGGGTGCCCGCAGACTGTGCCCGGCAGGAGACTGACTACGTGCTCAACAATGGCTTCAACCCCGCT
GGGGGCAGACCCTGCAGTTCCAGCTGCGGGCTCCGGAGCTGGCACTGGTCCGGTTTGTGGTGGAAGATTATGACG
CCACCTCCCCCAATGACTTTGTGGGCCAGTTTACACTGCCTCTTAGCAGCCTAAAGCAAGGGTACCGCCACATAC
ACCTGCTTTCCAAGGACGGGGCCTCACTGTCACCAGCCACGCTCTTCATCCAAATCCGCATCCAGCGCTCTGAG
TAGCTGGGACTACAGGCACAGGCCACCACACCTGGCTAATGTTTAAATTTTATGTAGAGATGGCGGGGGGGCGG
GGGTCTCCCTATGCTGCCAGGCTGGTCTCGAGCTCCTGACCTCAAGTGATCCTCCTGCCCGAGCATTCCAAAGT
GCTGGGATTACAGGTGTGAGCCACTGCCTGGCCTGGCCGTAGGTTTGTAACTGTTTCATAGAAGAGCCCTGGAGA
AGACAGTAGAATGAGCCTATCTAGTTTAAAAAATAAAGAAGCACGTTGATTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4886

MLCGRWRRRCRRPPEEPPVAAQVAAQVAAPVALPSPPTPSDGGTKRPGLRALKKMGLTEDEDVRAMLGRSRLRKIR
SRTWHKERLYRLQEDGLSVWFQRRIPRAPSQHIFVQHIEAVREGHQSEGLRRFGGAFAPARCLTIAFKGRRKNI
DLAAPTAEAAQRWVRGLTKLRARLDAMSQRERLDHWIHSYLHRADSNQDSKMSFKEIKSLLRMVNVDMNDMYAYL
LFKECDHSNDRLEGAEIEEFLRRLKRPLEEIFHQYSGEDRVLSAPELLEFLEDQGEEGATLARAQQLIQTYE
LNETAKQHELMTLDGFMMYLLSPEGAALDNTHTCVFDQMNQPLAHYFISSSHNTYLTDSQIGGPSSTEAYVRAFA
QGCRCVELDCWEGPGGEPVIYHGHTLTSTKILFRDVVQAVRDHAFTLSPYPVILSLENHCGLEQQAAMARHLCTIL
GDMLVTQALDSPNPEELPSPEQLKGRVLVKGKKLPAARSEDGRALSDREEEEEEDDEEEEEVEAAAQRRLLAKQIS
PELSALAVYCHATRLRTLHPAPNAPQPCQVSSLSEKAKKLIREAGNSFVRHNARQLTRVYPLGLRMNSANYSPQ
EMWNSGCQLVALNFQTPGYEMDLNAGRFLVNGQCGYVLKPACLRQPDSTFDPEYPGPPRTTLSIQVLTAQQLPKL
NAEKPHSIVDPLVRIEIHGVPADCARQETDYVLNNGFNPRWGQTLQFQLRAPELALVRFVVEDYDATSPNDFVGO
FTLPLSSLKQGYRHIHLLSKDGASLSPATLFIQIRIQRS

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FIGURE 4887

CGGCCACGAGGCGGAATCCCTTCTGCTCTCCCAGCGCAGCGCCGCCCGCCCGCCCTCCAGCTTCCCGGACCATG

GCCAACCTGGAGCGCACCTTCATCGCCATCAAGCCGGACGGCGTGCAGCGCGGCCTGGTGGGCGAGATCATCAAG
CGCTTCGAGCAGAAGGGATTCCGCCTCGTGGCCATGAAGTTCCTCCGGGCCTCTGAAGAACACCTGAAGCAGCAC
TACATTGACCTGAAAGACCGACCATTCTTCCCTGGGCTGGTGAAGTACATGAACTCAGGGCCGGTTGTGGCCATG
GTCTGGGAGGGGCTGAACGTGGTGAAGACAGGCCGAGTGATGCTTGGGGAGACCAATCCAGCAGATTCAAAGCCA
GGCACCATTCTGTTGGGACTTCTGCATTTCAGGTTGGCAGGAACATCATTTCATGGCAGTGATTTCAGTAAAAAGTGCT
GAAAAAGAAATCAGCCTATGGTTTAAGCCTGAAGAACTGGTTGACTACAAGTCTTGTGCTCATGACTGGGTCTAT
GAATTAAGAGGTGGACACAACAGCAGTCTCCTTCAGCACGGCGTGGTGTGTCCCTGGACACAGCTCTTCATTCCAT
TGACTTAGAGGCAACAGGATTGATCATTCTTTTATAGAGCATATTTGCCAATAAAGCTTTTGGAAGCCGG

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FIGURE 4888

MANLERTFIAIKPDGVQRGLVGEIIKRFEQKGFRVAMKFLRASEEHLKQHYIDLKDRPFFPGLVKYMNSGPVVA
MVWEGNLNVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVKSAEKEISLWFKPEELVDYKSCAHDWV
YE

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FIGURE 4889

TGCTGCGAACCACGTGGGTCCCGGGCGCGTTTCGGGTGCTGGCGGCTGCAGCCGGAGTTCAAACCTAAGCAGCTG
GAAGGAACCATGGCCAACTGTGAGCGTACCTTCATTGCGATCAAACCAGATGGGGTCCAGCGGGGTCTTGTGGGA
GAGATTATCAAGCGTTTTGAGCAGAAAGGATTCCGCCTTGTTGGTCTGAAATTCATGCAAGCTTCCGAAGATCTT
CTCAAGGAACACTACGTTGACCTGAAGGACCGTCCATTCTTTGCCGGCCTGGTGAAATACATGCACTCAGGGCCG
GTAGTTGCCATGGTCTGGGAGGGGGCTGAATGTGGTGAAGACGGGCCGAGTCATGCTCGGGGAGACCAACCCTGCA
GACTCCAAGCCTGGGACCATCCGTGGAGACTTCTGCATACAAGTTGGCAGGAACATTATACATGGCAGTGATTCT
GTGGAGAGTGCAGAGAAGGAGATCGGCTTGTGGTTTCACCCTGAGGAACTGGTAGATTACACGAGCTGTGCTCAG
AACTGGATCTATGAATTGACAGGAGGGGCAGACCACATTGCTTTTCACATCCATTTCCCTCCTTCCCATGGGCAGA
GGACCAGGCTGTAGGAAATCTAGTTATTTACAGGAAC TTCATCATAATTGGAGGGAAGCTCTTGGAGCTGTGAG
TTCTCCCTGTACAGTGTTACCATCCCCGACCATCTGATTAAAATGCTTCCTCCCAGC

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FIGURE 4890

MANCERTFIAIKPDGVQRGLVGEIIKRFEQKGFRLVGLKFMQASEDLLKEHYVDLKDRPFFAGLVKYMHS GPVVA
MVWEGLVVVK TGRV MLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVESAEKEIGLWFHPEELVDYTSCAQNWI
YE

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FIGURE 4891

GACAACTTGAGCTGAAAGCGAAAACTATGCTGACCAGATTAGCAGACTTGAAGAAAGAGAAGCAGAACTGAAGA
AGGAATATAATGCATTACATCAAAGACACACTGAGATGATCCATAATTATATGGAACATTTAGAAAGAACAAAAC
TTCATCAGCTCTCAGGGAGTGATCAACTAGAATCCACAGCTCATAGTAGAATTAGAAAAGAACGCCCTATATCAT
TAGGAATTTTCCCATTACCTGCTGGAGATGGATTGCTTACACCTGATGCTCAGAAAGGAGGAGAGACCCCTGGAT
CTGAGCAATGGAATTTTCAAGGAATTAAGTCAACCACGTTCTCATACCAGCCTGAAGGATGAGCTTTCTGATGTTA
GCCAAGGCGGATCTAAAGCTACCACTCCAGCATCAACAGCTAATTCAGATGTGGCAACAATTCCTACTGATACTC
CCTTAAAGGAAGAAAACGAAGGATTTGTGAAGGTTACAGATGCGCCAAATAAATCAGAGATAAGCAAACACATTG
AAGTACAGGTAGCCCAGGAACTAGAAATGTATCTACTGGCTCTGCTGAAAATGAAGAAAAGTCAGAAGTTCAAG
CAATCATCGAATCTACTCCTGAGCTGGATATGGACAAAGATCTCAGTGGATATAAAGGTTCAAGCACTCCACCA
AAGGCATAGAGAACAAAGCTTTTGATCGCAATACAGAATCTCTCTTTGAAGAACTGTCTTCAGCTGGCTCAGGCC
TAATAGGAGATGTGGATGAAGGAGCAGATTTACTAGGAATGGGTGCGGAAGTTGAGAATCTTATATTAGAAAATA
CACAACCTGTTGGAACCAAAAATGCTTTGAACATAGTGAAGAATGATTTGATAGCAAAAGTGGATGAACTGACCT
GTGAGAAAGATGTGCTGCAAGGGGAATTGGAGGCTGTGAAGCAAGCCAACTGAACTAGAGGAAAAGAACAGAG
AATTGGAGGAAGAGCTTAGGAAAGCTCGGGCAGAAGCTGAAGATGCAAGGCAAAAAGCAAAAGATGACGATGATA
GTGATATTCCCACAGCCCAGAGGAAACGGTTTACTAGAGTAGAAATGGCCCGTGTCTCATGGAGCGAAAACAGT
ATAAGAGAGATTGATGGAGCTTCAGGAAGCTGTTTCGATGGACAGAGATGATTCGGGCATCACGAGAAAATCCAG
CCATGCAGGAAAAAAAAGGTCAAGCATTGGCAGTTTTTCAGCCGACTTTTCAGCTCCTCAAGTAACACGACTA
AGAAGCCTGAACCACCTGTTAATCTGAAGTACAATGCACCCACGTCCTCATGTTACTCCGTCCGTCAAGAAAAGAA
GCAGCACCTTATCTCAGCTCCCTGGGGATAAGTCCAAAGCCTTTGATTTTCCTTAGTGAAGAAAAGTGAAGCTAGTT
TAGCCTCACGCAGAGAACAAAAGAGAGAGCAGTATCGTCAGGTAAAAGCACATGTTTCAGAAGGAAGACGGTAGAG
TGCAGGCTTTTGGCTGGAGTCTGCCTCAGAAGTACAAACAGGTAACCAATGGTCAAGGTGAAAATAAGATGAAAA
ATTTACCTGTGCCTGTCTATCTCAGACCTCTGGATAAAAAAGATACATCAATGAAGCTGTGGTGTGCTGTTGGAG
TCAATTTATCTGGTGGGAAGACCAGAGATGGTGGTCTGTTGTTGGAGCAAGTGATTTTACAAGGATGTTGCTG
GTTTGGATACAGAAGGCAGTAAACAGCGAAGTGCCTCTCAGAGTAGTTTAGATAAGTTAGATCAGGAACCTAAGG
AACAGCAGAAGGAGTTAAAAAATCAAGAAGAATTATCCAGTCTAGTTTGGATCTGTACCAGCACTCATTCGGCTA
CAAAAGTTCTTATTATTGATGCTGTTCAACCTGGCAACATCCTAGACAGTTTCACTGTTTGCAACTCTCATGTTT
TGTGCATTGCAAGTGTGCCAGGTGCACGAGAAACAGACTACCCTGCAGGAGAAGATCTTTCAGAATCTGGTCAGG
TAGACAAAGCATCTTTATGTGGAAGTATGACAAGCAACAGCTCAGCAGAGACAGACAGCCTGTTAGGAGGCATCA
CAGTGGTTGGTTGTTCTGCAGAAGGTGTGACGGGAGCTGCCACTTCCCCTAGTACAAATGGTGCTTCTCCAGTGA
TGGATAAACCACCAGAAATGGAAGCAGAAAATAGTGAGGTTGATGAAAATGTTCCAACAGCAGAAGAAGCAACTG
AAGCTACAGAAGGGAATGCGGGGTCAGCTGAAGACACAGTGGACATCTCCCAAAGTGGCGTCTACACAGAGCATG
TCTTTACAGATCCTTTGGGAGTTCAGATCCCAGAAGACCTCTCCCAGTGTATCAGTCGAGGTATAATAATGGGT
CATCAACTTAGGCAACTGGGTGAAGTGCACAAATAAAGGAACCAAAATAATCTCAAACAGTCAAAAGATTTCCA
CTAATTAGTGTCACTGTGGTGGATTAAAGATACCTATTCTTGTGATA

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FIGURE 4892

MIHNYMEHLERTKLHQLSGSDQLESTAHSRIRKERPISLGIFPLPAGDGLLTPDAQKGGETPGSEQWKFQELSOP
RSHTSLKDELSQGGSKATTPASTANSVDATIPDTPLKEENEGFVKVTDAPNKSEISKHIEVQVAQETRNV
TGAENEKSEVQAI IESTPELMDMDKDLGKGSSTPTKGIENKAFDRNTESLFEELSSAGSLIGDVDEGADLL
GMGREVENLILENTQLLETKNALNIVKNDLIAKVDELTCEDVLQGELEAVKQAKLKLEKNRELEEEELRKARAE
AEDARQKAKDDDDSDIPTAQRKRFRVEMARVLMERNQYKERLMELQEAVRWTE MIRASREN PAMQEKKRSSIWQ
FFSRLFSSSSNTTKKPEPPVNLKYNAPTSHVTPSVKKRSSTLSQLPGDKSKAFDFLSEETEASLASRREQKREQY
RQVKAHVQKEDGRVQAFGWSLPQKYKQVTNGQGENKMKNLFPVPVYLRPLDKKDTSMKLWCAVGVNLSGGKTRDGG
SVVGASVFYKDVAGLDTGSKQRSASQSSLDKLDQELKEQQKELKNQEELSSLVWICTSTHSATKVLIIIDAVQPG
NILDSTVCNSHVLCIASVPGARETDYPAGEDLSESGQVDKASLCGSMSTSNSSAETDSSLGGITVVGCSAEGVTG
AATSPSTNGASPVMDKPPPEMEAENSEVDENVPTAEAEATEATEGNAGSAEDTVDISQTG VYTEHVFTDPLGVQIPE
DLSPVYQSRYNNGSST

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FIGURE 4893A

CTCCGGCGCCCGCTCTGCCGCGCGCTGGGTCCGACCGCGCTCGCCTTCCTTGCAGCCGCGCCTCGGCCCCATGGA
CGCCCTGTGCGGTTCCGGGGAGCTCGGCTCCAAGTTCTGGGACTCCAACCTGTCTGTGCACACAGAAAACCCGGA
CCTCACTCCCTGCTTCCAGAACTCCCTGCTGGCCTGGGTGCCCTGCATCTACCTGTGGGTGCGCCTGCCCTGCTA
CTTGCTCTACCTGCGGGACCAATTGTCTGGCTACATCATCTCTCCACCTGTCCAAGCTCAAGATGGTCCTGGG
TGCTCTGCTGTGGTGCCTCTCTGGGCGGACCTTTTTTACTCCTTCCATGGCCTGGTCCATGGCCGGGCCCCCTGC
CCCTGTTTTCTTTGTACCCCCCTTGGTGGTGGGGGTACCATGCTGCTGGCCACCCTGCTGATACAGTATGAGCG
GCTGCAGGGCGTACAGTCTTCGGGGGTCTCATTATCTTCTGGTTCTGTGTGTGGTCTGCGCCATCGTCCCAT
CCGCTCCAAGATCCTTTTAGCCAAGGCAGAGGGTGAGATCTCAGACCCCTTCCGCTTCACCACCTTCTACATCCA
CTTTGCCCTGGTACTCTCTGCCCTCATCTTGGCCTGCTTCAGGGAGAAACCTCCATTTTTCTCCGCAAAGAATGT
CGACCCTAACCCCTACCCTGAGACCAGCGCTGGCTTTCTCTCCCGCCTGTTTTCTGGTGGTTACAAAGCTGCT
AAACCCTGACCCTCTGCGGGGTGCTGCGGGGCTTACCTCCCCCAGGATGGCCATCTATGGCTACCGGCATC
CCCTGGAGGAGAAGGACCTCTGGTCCCTAAAGGAAGAGGACAGATCCCAGATGGTGGTGCAGCAGCTGCTGGAGG
CATGGAGGAAGCAGGAAAAGCAGACGGCAGACACAAGGCTTCAGCAGCACCTGGGAAAAATGCCTCCGGCGAGG
ACGAGGTGCTGCTGGGTGCCCCGGCCAGGCCCGGAAGCCCTCCTTCCTGAAGGCCCTGCTGGCCACCTTCGGCT
CCAGCTTCCTCATCAGTGCCTGCTTCAAGCTTATCCAGGACCTGCTCTCCTTCATCAATCCACAGCTGCTCAGCA
TCCTGATCAGGTTTATCTCCAACCCCATGGCCCCCTCCTGGTGGGGCTTCCTGGTGGCTGGGCTGATGTTCTGT
GCTCCATGATGCAGTCGCTGATCTTACAACACTATTACCACTACATCTTTGTGACTGGGGTGAAGTTTCGTA
GGATCATGGGTGTCTATCTACAGGAAGGCTCTGGTTATCACCACCTCAGTCAAACGTGCGTCCACTGTGGGGGAAA
TTGTCAACCTCATGTCACTGGATGCCAGCGCTTCATGGACCTTGCCCCCTTCCTCAATCTGCTGTGGTCAGCAC
CCCTGCAGATCATCTGGCGATCTACTTCTTGGCAGAACCTAGGTCCCTCTGTCTGGCTGGAGTCGCTTTCA
TGGTCTTGCTGATTCCACTCAACGGAGCTGTGGCCGTGAAGATGCGCGCCTTCCAGGTAAAGCAAATGAAATTGA
AGGACTCGCGCATCAAGCTGATGAGTGAATCCTGGACGGCATCAAGGTGCTGAAGCTGTACGCCTGGGAGCCCA
GCTTCTTGAAGCAGGTGGAGGGCATCAGGCAGGGTGAGCCCCAGCTGCTGCGCACGGCGGCCTACCTCCACACCA
CAACCACCTTACCTGGATGTGACGCCCTTCTTGGTGACCCTGATCACCTCTGGGTGTACGTGTACGTGGACC
CAAACAATGTGCTGGACGCCGAGAAGGCCCTTGTGTCTGTGTCTTGTTTAATATCTTAAGACTTCCCCCTCAACA
TGCTGCCCCAGTTAATCAGCAACCTGACTCAGGCCAGTGTGTCTCTGAAACGGATCCAGCAATTCTGAGCCAAG
AGGAACTTGACCCCAAGAGTGTGGAAGAAAGACCATCTCCCCAGGCTATGCCATCACCATACAGTGGCACCT
TCACCTGGGGCCAGGACCTGCCCCCACTCTGCACAGCCTAGACATCCAGGTCCCGAAAGGGGCACTGGTGGCCG
TGGTGGGGCCTGTGGGCTGTGGGAAGTCTCCCTGGTGTCTGCCCCTGCTGGGAGAGATGGAGAAGCTAGAAGGCA
AAGTGCACATGAAGGGCTCCGTGGCCTATGTGCCCCAGCAGGCATGGATCCAGAACTGCACTCTTCAGGAAAACG
TGCTTTTCGGCAAAGCCCTGAACCCCAAGCGCTACCAGCAGACTCTGGAGGCCTGTGCCTTGCTAGCTGACCTGG
AGATGCTGCCTGGTGGGGATCAGACAGAGATTGGAGAGAAGGGCATTAACTGTCTGGGGGCCAGCGGCAGCGGG
TCAGTCTGGCTCGAGCTGTTTACAGTATGATGCCGATATTTTCTTGTGCTGATGACCCACTGTCCGCGGTGGACTCTC
ATGTGGCCAAGCACATCTTTGACCACGTATCGGGCCAGAAAGCGTGCTGGCAGGCAAGACGCGAGTGTGGTGA
CGCACGGCATTAGCTTCTGCCCCAGACAGACTTCATCATTGTGCTAGCTGATGGACAGGTGTCTGAGATGGGCC
CGTACCCAGCCCTGCTGCAGCGCAACGGCTCCTTTGCCAACTTTCTCTGCAACTATGCCCCCGATGAGGACCAAG
GGCACCTGGAGGACAGCTGGACCGCGTTGGAAGGTGCAGAGGATAAGGAGGCACTGCTGATTGAAGACACACTCA
GCAACCACACGGATCTGACAGACAATGATCCAGTCACCTATGTGGTCCAGAAGCAGTTTATGAGACAGCTGAGTG
CCCTGTCTCAGATGGGGAGGGACAGGGTCCGGCCTGTACCCCGGAGGCACCTGGGTCCATCAGAGAAGGTGCAGG
TGACAGAGGCGAAGGCAGATGGGGCACTGACCCAGGAGGAGAAAGCAGCCATTGGCACTGTGGAGCTCAGTGTGT
TCTGGGATTATGCCAAGGCCGTGGGGCTCTGTACCACGCTGGCCATCTGTCTCCTGTATGTGGGTCAAAGTGC GG
CTGCCATTGGAGCCAATGTGTGGCTCAGTGCCTGGACAAATGATGCCATGGCAGACAGTAGACAGAACAACACTT
CCCTGAGGCTGGGCGTCTATGCTGCTTTAGGAATTCTGCAAGGGTTCTTGGTGATGCTGGCAGCCATGGCCATGG
CAGCGGGTGGCATCCAGGCTGCCCCTGTGTGTCACCAGGCACTGCTGCACAACAAGATACGCTCGCCACAGTCCCT
TCTTTGACACCACACCATCAGGCCGCATCCTGAAGTCTTCTCCAAGGACATCTATGTGCTTATGAGGTTCTGG
CCCCTGTATCTCTATGCTGCTCAATTCCTTCTTCAACGCCATCTCCACTCTTGTGGTTCATCATGGCCAGCACGC
CGCTCTTCACTGTGGTTCATCCTGCCCCCTGGCTGTGCTCTACACCTTAGTGCAGCGCTTCTATGCAGCCACATCAC
GGCAACTGAAGCGGCTGGAATCAGTCAGCCGCTCACCTATCTACTCCCACTTTTCGGAGACAGTACTGGTGCCA

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FIGURE 4893B

GTGTCATCCGGGCCTACAACCGCAGCCGGGATTTTGAGATCATCAGTGATACTAAGGTGGATGCCAACCAGAGAA
GCTGCTACCCCTACATCATCTCCAACCGGTCAGAAGCCGCCTCCCTCGCTCCCTGCTCCTCCAGGAATTCCCAGC
AGGCTCTCTGGTGTTTCAGGGTCCTTGTCCTCCTTTCCCTAAGCAGAAAAGTGGCCCTGCCCTGCCCTGCCCT
ATTTCTCTCATCTGATCCCCATAGGTGGCTGAGCATCGGAGTGGAGTTTCGTGGGGAAGTGCCTGGTGCTCTT
TGCTGCACTATTTGCCGTATCGGGAGGAGCAGCCTGAACCCGGGGCTGGTGGGCTTTCTGTGTCCTACTCCTT
GCAGGTGACATTTGCTCTGAACTGGATGATACGAATGATGTCAGATTTGGAATCTAACATCGTGGCTGTGGAGAG
GGTCAAGGAGTACTCCAAGACAGAGACAGAGGCGCCCTGGGTGGTGGAAAGGCAGCCGCCCTCCCGAAGGTTGGCC
CCCAGTGGGGAGGTGGAGTTCGGAATTATTCTGTGCGCTACCGGCCGGGCCTAGACCTGGTGCTGAGAGACCT
GAGTCTGCATGTGCACGGTGGCGAGAAGGTGGGGATCGTGGGCCGCACTGGGGCTGGCAAGTCTTCCATGACCCT
TTGCCTGTTCCGCATCCTGGAGGCGGCAAAGGGTGAAATCCGCATTGATGGCCTCAATGTGGCAGACATCGGCCT
CCATGACCTGCGCTCTCAGCTGACCATCATCCCGCAGGACCCCATCCTGTTCTCGGGGACCCCTGCGCATGAACCT
GGACCCCTTCGGCAGCTACTCAGAGGAGGACATTTGGTGGGCTTTGGAGCTGTCCACCTGCACACGTTTGTGAG
CTCCCAGCCGGCAGGCCTGGACTTCCAGTGCTCAGAGGGCGGGGAGAATCTCAGCGTGGGCCAGAGGCAGCTCGT
GTGCTGGCCCCGAGCCCTGCTCCGCAAGAGCCGCATCCTGGTTTTAGACGAGGCCACAGCTGCCATCGACCTGGA
GACTGACAACCTCATCCAGGCTACCATCCGCACCCAGTTTGATACCTGCACTGTCTGACCATCGCACACCGGCT
TAACACTATCATGGACTACACCAGGGTCTTGGTCTGGACAAAGGAGTAGTAGCTGAATTTGATTCTCCAGCCAA
CCTCATTGCAGCTAGAGGCATCTTCTACGGGATGGCCAGAGATGCTGGACTTGCCTAAAATATATTCTGAGATT
TCCTCCTGGCCTTTCTGTTTTTCATCAGGAAGGAAATGACACCAAATATGTCCGCAGAATGGACTTGATAGCAA
ACACTGGGGGCACCTTAAGATTTTGCACCTGTAAAGTGCTTACAGGGTAACTGTGCTGAATGCTTTAGATGAGG
AAATGATCCCCAAGTGGTGAATGACACGCCTAAGGTCACAGCTAGTTTGAGCCAGTTAGACTAGTCCCCCGGTCT
CCCGATTCCCAACTGAGTGTTATTTGCACACTGCACTGTTTTCAAATAACGATTTTATGAAATGACCTCTGTCT
CCCTCTGATTTTTTCATATTTTCTAAAGTTTCGTTTCTGTTTTTAATAAAAAGCTTTTCTCCTGGAACAGAA
GACAGCTGCTGGGTGAGGCCACCCCTAGGAAGTCACTCCTGTACTCTGGGGTGTGCTGCTGAATCCATTAAAAATG
GGAGTACTGATGAAATAAAACTACATGGTCAACAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 4894

MDALCGSGELGSKFWDSNLSVHTENPDLTPCFQNSLLAWVPCIYLWVALPCYLLYLRRHCRGYIILSHLSKLMV
LGVLLWCVSWADLFYSFHGLVHGRAPAPVFFVTPLVVGVTMLLATLLIQYERLQGVQSSGVLIIFWFLCVVCAIV
PFRSKILLAKAEGEISDPFRFTTFYIHFALVLSALILACFREKPPFFSAKNVDPNPYPETSAGFLSRLFFWWFTK
LLNPDPLRGCLPGFTSPQDGLWLPPASPGGEGPLVPKGRGQIPDGGAAAAGGMEEAGKADGTTQGFSSWEKCLR
RGRGAAGCPAQAPEALLPEGPAHLRLQLPHQCLLQAYPGFALLHQSTAAQHPDQVYLQPHGPLLVGLPGGWADV
PVLHDAVADLTLLPLHLCDWGEVSYWDHGCHLQEGSGYHQLSQTCVHCGGNCQPHVSGCPALHGPCPLPQSAVV
STPADHFGDLLPLAEPRSLCPGWSRFHGLADSTQRSCGREDAFLPGKANEIEGLAHQADE

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FIGURE 4895A

CTCCGGCGCCCGCTCTGCCCGCCGCTGGGTCCGACCGCGCTCGCCTTCCTTGACGCCGCGCCTCGGCCCCATGGA
CGCCCTGTGCGGTTCGGGGGAGCTCGGCTCCAAGTTCTGGGACTCCAACCTGTCTGTGCACACAGAAAACCCGGA
CCTCACTCCCTGCTTCCAGAACTCCCTGCTGGCCTGGGTGCCCTGCATCTACCTGTGGGTGCGCCCTGCCCTGCTA
CTTGCTCTACCTGCGGCACCATGTGCTGGCTACATCATCCTCTCCACCTGTCCAAGCTCAAGATGGTCCTGGG
TGTCCTGCTGTGGTGCGTCTCCTGGGCGGACCTTTTTTACTCCTTCCATGGCCTGGTCCATGGCCGGGCCCCCTGC
CCCTGTTTTCTTTGTACCCCCCTTGGTGGTGGGGGTACCATGCTGCTGGCCACCTGCTGATACAGTATGAGCG
GCTGCAGGGCGTACAGTCTTCGGGGGTCTCATTATCTTCTGGTTCTGTGTGGTCTGCGCCATCGTCCCAT
CCGCTCCAAGATCCTTTTAGCCAAGGCAGAGGGTGAGATCTCAGACCCCTTCCGCTTCACCACCTTCTACATCCA
CTTTGCCCTGGTACTCTCTACCCCTCATCTTGGCCTGCTTCAGGGAGAAACCTCCATTTTTCTCCGCAAAGAATGT
CGACCCTAACCCCTACCTTGAGACCAGCGCTGGCTTTCTCTCCCGCCTGTTTTTCTGGTGGTTCACAAAGATGGC
CATCTATGGCTACCGGCATCCCTGGAGGAGAAGGACCTCTGGTCCCTAAAGGAAGAGGACAGATCCCAGATGGT
GGTGCAGCAGCTGCTGGAGGCATGGAGGAAGCAGGAAAAGCAGACGGCACGACACAAGGCTTCAGCAGCACCTGG
GAAAAATGCCTCCGGCGAGGACGAGGTGCTGCTGGGTGCCCGGCCAGGCCCGGAAGCCCTCCTTCTGAAGGC
CCTGCTGGCCACCTTCGGCTCCAGCTTCTCATCAGTGCCTGCTTCAAGCTTATCCAGGACCTGCTCTCCTTCAT
CAATCCACAGCTGCTCAGCATCTGATCAGGTTTATCTCCAACCCCATGGCCCCCTCCTGGTGGGGCTTCCTGGT
GGCTGGGCTGATGTTCTGTGCTCCATGATGCAGTGCCTGATCTTACAACACTATTACCACTACATCTTTGTGAC
TGGGGTGAAGTTTCGTACTGGGATCATGGGTGTCATCTACAGGAAGGCTCTGGTTATACCAACTCAGTCAAACG
TGCCTCACTGTGGGGGAAATTGTCAACCTCATGTGAGTGGATGCCAGCGCTTCATGGACCTTGCCCCCTTCCT
CAATCTGCTGTGGTCAGCACCCCTGCAGATCATCCTGGCGATCTACTTCTCTGGCAGAACCTAGGTCCCTCTGT
CCTGGCTGGAGTGCCTTTTCATGGTCTTGCTGATTCCACTCAACGGAGCTGTGGCCGTGAAGATGCGCGCCTTCCA
GGTAAAGCAAATGAAATTGAAGGACTCGCGCATCAAGCTGATGAGTGAGATCCTGAACGGCATCAAGGTGCTGAA
GCTGTACGCCTGGGAGCCCAGCTTCCTGAAGCAGGTGGAGGGCATCAGGCAGGGTGAGCTCCAGCTGCTGCGCAC
GGCGGCCTACCTCCACACCACAACCACCTTCACCTGGATGTGCAGCCCCCTTCTGGTGACCCTGATCACCCCTCTG
GGTGTACGTGTACGTGGACCCAAACAATGTGCTGGACGCCGAGAAGGCCTTTGTGTCTGTGTCTTGTTTAATAT
CTTAAGACTTCCCCTCAACATGCTGCCCCAGTTAATCAGCAACCTGACTCAGGCCAGTGTGTCTCTGAAACGGAT
CCAGCAATTCTGAGCCAAGAGGAACCTTGACCCCCAGAGTGTGGAAGAAAGACCATCTCCCCAGGCTATGCCAT
CACCATACACAGTGGCACCTTCACCTGGGCCCAGGACCTGCCCCCACTCTGCACAGCCTAGACATCCAGGTCCC
GAAAGGGGCACTGGTGGCCGTGGTGGGCTGTGGGCTGTGGGAAGTCTCCTCCCTGGTGTCTGCCCTGCTGGGAGA
GATGGAGAAGCTAGAAGGCAAAGTGACATGAAGGGCTCCGTGGCCTATGTGCCCCAGCAGGCATGGATCCAGAA
CTGCACCTCTTCAGGAAAACGTGCTTTTCGGCAAAGCCCTGAACCCCAAGCGCTACCAGCAGACTCTGGAGGCCTG
TGCTTGTCTAGCTGACCTGGAGATGCTGCCTGGTGGGGATCAGACAGAGATTGGAGAGAAGGGCATTAACTGTG
TGGGGGCCAGCGGCAGCGGGTCAGTCTGGCTCGAGCTGTTTACAGTGATGCCGATATTTTCTTGTGATGACCC
ACTGTCCGCGGTGGACTCTCATGTGGCCAAGCACATCTTTGACCACGTCATCGGGCCAGAAGGCGTGTGTCAGG
CAAGACGCGAGTGTGGTGACGCACGGCATTAGCTTCTGCCCCAGACAGACTTCATCATTGTGCTAGCTGATGG
ACAGGTGTCTGAGATGGGCCCGTACCCAGCCCTGCTGCAGCGCAACGGCTCCTTTGCCAACTTTCTCTGCAACTA
TGCCCCGATGAGGACCAAGGGCACCTGGAGGACAGCTGGACC CGTGGAAAGGTGCAGAGGATAAGGAGGCACT
GCTGATTGAAGACACACTCAGCAACCACACGGATCTGACAGACAATGATCCAGTCACCTATGTGGTCCAGAAGCA
GTTTATGAGACAGCTGAGTGCCCTGTCTCTCAGATGGGGAGGGACAGGGTCGGCCTGTACCCCGGAGGCACCTGGG
TCCATCAGAGAAGGTGCAGGTGACAGAGGCGAAGGCAGATGGGGCACTGACCCAGGAGGAGAAAGCAGCCATTGG
CACTGTGGAGCTCAGTGTGTTCTGGGATTATGCCAAGGCCGTGGGGCTCTGTACCACGCTGGCCATCTGTCTCCT
GTATGTGGGTCAAAGTGCGGTGCCATTGGAGCCAATGTGTGGCTCAGTGCCTGGACAAATGATGCCATGGCAGA
CAGTAGACAGAACAACTTCCCTGAGGCTGGGCGTCTATGCTGCTTTAGGAATTCTGCAAGGGTCTTGGTGTAT
GCTGGCAGCCATGGCCATGGCAGCGGGTGGCATCCAGGCTGCCCCGTGTGTTGCACCAGGCACTGCTGCACAACAA
GATACGCTCGCCACAGTCTTCTTTGACACCACACCATCAGGCCGATCCTGAACTGCTTCTCCAAGGACATCTA
TGTCGTTGATGAGGTTCTGGCCCCGTGTATCCTCATGCTGCTCAATTCTTCTTCAACGCCATCTCCACTCTTGT
GGTCATCATGGCCAGCACGCCGCTCTTCACTGTGGTCACTCTGCCCTGGCTGTGCTCTACACCTTAGTGACGCG
CTTCTATGCAGCCACATCACGGCAACTGAAGCGGTGGAATCAGTCAGCCGCTCACCTATCTACTCCCACTTTTC
GGAGACAGTGACTGGTGCCAGTGTATCCGGGCCTACAACCGCAGCCGGGATTTTGAGATCATCAGTGATACTAA

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FIGURE 4895B

GGTGGATGCCAACCAGAGAAGCTGCTACCCCTACATCATCTCCAACCGGTCAGAAGCCGCCTCCCTCGCTCCCTG
CTCCTCCAGGAATTCCCAGCAGGCTCTCTGGTGTTCAGGGTCCTTGTCCCTCCTTTCCCCTAAGCAGAAAATGG
CCCTGCCCTGCCCCTGCCCCATTTCTCTCATCTGATCCCCCATAGGCGGCTGAGCATCGGAGTGGAGTTTCGTG
GGGAACTGCGTGGTGCTCTTTGCTGCACTATTTGCCGTCTATCGGGAGGAGCAGCCTGAACCCGGGGCTGGTGGGC
CTTTCTGTGTCCTACTCCTTGAGGTGACATTTGCTCTGAACCTGGATGATACGAATGATGTCAGATTTGGAATCT
AACATCGTGGCTGTGGAGAGGGTCAAGGAGTACTCCAAGACAGAGACAGAGGCGCCCTGGGTGGTGGAAAGGCAGC
CGCCCTCCCGAAGGTTGGCCCCACGTGGGGAGGTGGAGTTCCGGAATTATTCTGTGCGCTACCGGCCGGGCTTA
GACCTGGTGCTGAGAGACCTGAGTCTGCATGTGCACGGTGGCGAGAAGGTGGGGATCGTGGGCCGCACTGGGGCT
GGCAAGTCTTCCATGACCCTTTGCCTGTTCCGCATCCTGGAGGCGGCAAGGGTGAAATCCGCATTGATGGCCTC
AATGTGGCAGACATCGGCCTCCATGACCTGCGCTCTCAGCTGACCATCATCCCGCAGGACCCCATCCTGTTCTCG
GGGACCCTGCGCATGAACCTGGACCCCTTCGGCAGCTACTCAGAGGAGGACATTTGGTGGGCTTTGGAGCTGTCC
CACCTGCACACGTTTGTGAGCTCCCAGCCGGCAGGCCTGGACTTCCAGTGCTCAGAGGGCGGGGAGAATCTCAGC
GTGGGCCAGAGGCAGCTCGTGTGCTGGCCCGAGCCCTGCTCCGCAAGAGCCGCATCCTGGTTTTAGACGAGGCC
ACAGCTGCCATCGACCTGGAGACTGACAACCTCATCCAGGCTACCATCCGCACCCAGTTTGATACCTGCACTGTC
CTGACCATCGCACACCGGCTTAACACTATCATGGACTACACCAGGGTCCTGGTCCTGGACAAAGGAGTAGTAGCT
GAATTTGATTCTCCAGCCAACCTCATTGCAGCTAGAGGCATCTTCTACGGGATGGCCAGAGATGCTGGACTTGCC
TAAAAATATATTCTGAGATTTCTCCTGGCCTTTCTGGTTTTTCATCAGGAAGGAAATGACACCAAATATGTCCG
CAGAATGGACTTGATAGCAAACTGGGGGCACCTTAAGATTTTGCACCTGTAAAGTGCCTTACAGGGTAACTGT
GCTGAATGCTTTAGATGAGGAAATGATCCCCAAGTGGTGAATGACACGCCTAAGGTCACAGCTAGTTTGAGCCAG
TTAGACTAGTCCCCCGGTCTCCCGATTCCCAACTGAGTGTTATTTGCACACTGCACTGTTTTCAAATAACGATTT
TATGAAATGACCTCTGTCTCCCTCTGATTTTTTCATATTTTCTAAAGTTTCGTTTCTGTTTTTAATAAAAAGC
TTTTTCTCCTGGAACAGAAGACAGCTGCTGGGTGAGGCCACCCCTAGGAACTCAGTCCTGTACTCTGGGGTGCT
GCCTGAATCCATTAAAAATGGGAGTACTGATGAAATAAACTACATGGTCAACAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 4896

MDALCGSGELGSKFWD SNLSVHTENPDLTPCFQNSLLAWVPCIYLVVALPCYLLYLRRHHCGRGYIILSHLSKLMV
LGVLWCVSWADLFYSFHGLVHGRAPAPVFFVTPLVVGVTMLLATLLIQYERLQGVQSSGVLIIFWFLCVVCAIV
PFRSKILLAKAEGEISDPFRFTTFYIHFALVLSTLILACFREKPPFFSAKNVDPNPYPETSAGFLSRLFFWWFTK
MAIYGYRHPLEEKDLWSLKEEDRSQM VVQQLLEAWRKQEKQTARHKASAAPGKNASGEDEVLLGARPRPRKPSFL
KALLATFGSSFLISACFKLIQDLLSFINPQLLSILIRFISNPMAPSWWGFLVAGLMFLCSMMQSLILQHYHYIF
VTGVKFRTGIMGVIYRKALVITNSVKRASTVGEIVNLMSVDAQRFMDLAPFLNLLWSAPLQIILAIYFLWQNLGP
SVLAGVAFMVLLIPLNGAVAVKMRAFQVKQMKLKDSRIKLMSEILNGIKVLKLYAWEPSFLKQVEGIRQGELOLL
RTAAYLHTTTTFTWMCSPFLVTLITLWVYVYVDPNNVLDAEKAFVSVSLFNILRLPLNMLPQLISNLTQASVSLK
RIQQFLSQEELDPQSVERKTISPGYAITIHSGTFTWAQDLPTLHSLDIQVPGALVAVVGPVGCCKSSLVSALL
GEMEKLEGVHMKGSVAYVPQQAWIQNCTLQENVLFGKALNP KRYQQTLEACALLADLEMLPGGDQTEIGEKGIN
LSGGQRQRVSLARAVYSDADIFLLDDPLSAVD SHVAKHIFDHVIGPEGVLAGKTRVLVTHGISFLPQTDFIIVLA
DGQVSEMGPYPALLQRNGSFANFLCNYAPDEDQGHLEDSWTALEGAEDKEALLIEDTL SNHTDLTDNDPVTYVVQ
KQFMRQLSALSSDGEGQGRPVPRRHLGPSEKVQVTEAKADGALTQEEKAAIGTVELSVFWDYAKAVGLCTTLAIC
LLYVGQSAAAIGANVWLSAWTNDAMADSRQNN TSLRLGVYAALGILQGFLVMLAAMAMAAGGIQAARVLHQALLH
NKIRSPQSFFDTPSGRI LNCFSKDIYVDEV LAPVILMLLNSFFNAISTLVVIMASTPLFTV VILPLAVLYTLV
QRFYAATSRQLKRLESVSRSPIYSHFSETVTGASVIRAYNRSRDFEII SDTKVDANQRSCYPYIISNRSEAASLA
PCSSRNSQQALWCSGSLSLSPKQKTGPALPLPHFLLI

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FIGURE 4897

GTGCTGCCTGGCGCTGGCTAGGAGGCAAACGCACGCGGGAAGAGCTGCTACCCATTCCAGGGACCCTGCCGCTGC
CCCTCTGAGGGGTCTGCACCTCCTGGGAGCAGGTGGGTCTCTGGGACGAGGGTCCATGGTGGATGGCTCTGGAGA
CGCTCCCCGAGGCTGTGCCGTCCCGCTGCTGCACAGGTTCGGAGGGTCACCGCAGAGGCTACTCGGGCTGGGGCTGG
GGCCGAGGGAGCCCGCACTGGAGCCCCATGTGGAACCCAAGGATGCAGCTGCTCTGCTAACACGGCAGCCCATCC
TTCAAGACTGTGACCTCGCCACAGTGGCCCTCAGCCCTCCACCTCCGGCGGGGGCGAGGGCCACCCACCTCCAAG
TCTCCAGCCATGACGACCTCCGCACTCCGGCGCCAGGTGAAGAACATCGTGCACTACTCCGAGGCAGAAATC
AAGGTGCGCGAGGGCCACCAGCAATGACCCCTGGGGCCCCCTAGTTGCTCATGTCCGAGATCGCTGACCTGACC
TTCAACACAGTGGCCTTCACCGAAGTCATGGGCATGCTGTGGCGGGCGGCTCAATGACAGCGGCAAGAAGTGGCGG
CACGTGTACAAGGCTCTAACATTGCTGGACTACCTGCTCAAGACGGGCTCCGAGCGGGTGGCCACCAGTGCCGC
GAGAACCTCTACACCATCCAGACACTCAAGGACTTCCAGTACATCGACCGCGACGGCAAGGACCAGGGCGTCAAC
GTGCGCGAGAAGGTCAAGCAGGTGATGGCCCTGCTCAAGGATGAGGAGCGGCTGCGGCAGGAGCGAACCACGCC
CTCAAGACCAAGGAGCGCATGGCACTGGAGGGCATCGGCATTGGCAGTGGGCAGCTGGGCTTCAGCCGCCGCTAC
GGCGAGGACTACAGCCGCTCCCGGGGCTCCCGTCTCTCTACAACCTCTCTCTCTCGTCACCCCGCTATACCTCC
GACCTGGAGCAGGCCCCGGCCTCAGACGTCAGGGGAAGAGGAAGTGCAGCTGCAGCTGGCCCTCGCCATGAGCCGT
GAGGAGGCAGAGAAGCCTGTCCCCCAGCCTCCACAGGGACGAGGACCTGCAGCTGCAGCTGGCTCTGCGCCTG
AGCCGGCAGGAGCACGAGAAGGAGGTGAGGTCTGGCAGGGTGATGGCTCCCCCATGGCCAATGGTGCAGGGGCC
GTGGTCCACCATCAGCGGGACAGAGAGCCTGAGAGAGAAGAGAGAAAGGAGGAGGAGAAGCTAAAAACAGCCAG
TCCTCCATCCTGGACTTGGCTGACATCTTCGTACCTGCCCTGGCCCCGCCCTCCACACACTGCTCTGCTGACCCA
TGGGACATCCCAGGTTTTAGGCCGAACACAGAGGCCAGTGGATCCTCTCTGGGGGCTTCTGCAGACCCCTGGTCT
CCGATCCCCCTCAGGAACCGTCTGTCCCGAAGCCAGCCCTGGGATCTGACTCCCATGCTCTCTCTCTGAGCCC
TGGGGCAGGACCCAGTGTGCTGCTGGGCCCCCACCACAGACCCCTGGGGCCTGAACTCTCCCCACCACAAA
CTCCCCAGCACTGGGGCTGACCCCTGGGGAGCCTCCCTGGAGACCTCCGACACACCTGGTGGTGCCTCGACCTTT
GACCCATTTGCCAAACCTCCAGAATCCACAGAGACCAAGGAGGGGCTGGAGCAGGCCCTGCCCTCTGGGAAGCCC
AGCAGCCCTGTGGAGCTGGACCTGTTTGGAGACCCAGCCCAAGTTCGAAGCAAAATGGCACGAAGGAGCCAGAT
GCCCTGGACCTGGGCATACTAGGGGAAGCACTAACCAGCCAAGCAAAGAGGCCCGAGCTTGCCGGACTCCCGAG
TCCTTCTGGGTCCCTCAGCTTCTCTTGGTCAACCTTGACTCGTTGGTCAAGGCACCCAGGTTGCAAAGACC
CGGAACCCCTTCTGACAGGTCTCAGCGCTCCGTCCCCACCAACCCGTTTCGGCGCGGGCGAGCCGGGCAGGCCG
ACGCTAAACCAGATGCGCACCGGCTCGCCGGCGCTGGGCCTGGCAGGCGGGCCTGTGGGGGCGCCCCCTGGGCTCC
ATGACCTACAGCGCTCTCTGCCCCCTCCCGCTCAGCAGCGTGCCAGCTGGCTTGACCCCTCCCCGCTCGGTTAGC
GTCTTCCCGCAGGCCGGAGCCTTCGCACCGCAGCCGCTGCTGCCACGCCGAGCTCAGCCGGGCCCGCGGCCCGCG
CCCCCGCAGACCGGCACCAACCCCTTCTCTGAGCCCCGCCCCGTCCCATACCGGCTGCGCCTGCGCCGGACGC
TCCGCGGCCCGCTCCGGACCCGGGGCTGGGCGGGGCGCCGGTGCTAGTGGAACGCCGAGCCAGTGGCGGCTGG
TATCCCGCGGCGGCTCTGGAAGCTGGACGCGGACCACGGCCGGGAGCTAGAACTGAACGCCCGCATAATAAG
ACTGGAACCCCTCGTTCTCAGCTCTACCAAGTGGACTTTTTGCGGGGTGTGGCGGCCGGGTCTCGACCACAGCGT
GGATCACCGGCTGTTTAGGAACTGCAGCTGCACAACGTGGGGTGCAAACTGCCCGCTTCTTTACAGCTCTT
CTCAACCCTCACCTCCATCCCCGCTACCCAGGCACCTTCGCTTCCAGATGCTGCCAGGCTGTCACTCAATTCCG
TCATTTCAATTCATTTATCACACATGGGCACTGGGGTTGGGCTAACAGCAAGAGACAATAGGCCTTTGTTTCTATT
TATTGGGTACTGCTTACGTGCTAAGCAGATCAGTTTATTTAATGCTTGCAACGACTCTCTGAGGTAGAAAATATT
GTTAATTCCGTTCAGGATCCCGGCTACATAATCTGTGGGGCTCAATACAAAATAAAAATGTAGGGGCTCCTTGT
C

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FIGURE 4898

GTGATCCCTGCGCGCGTCTCCTGCTCGGGTCAGTGCGCCGCGCTGCGCTGGGCGCCATGGCGCTCCCCGGAGCCC
GGGCTCGCGGCTGGGCGGCAGCAGCCAGAGCGGCCAGAGGCGCCGCGCGTGGAGAACGCAGGAGGGTCCCCGA
GTCTGAGCCTGCGGGCCGGCGCGCGGCGCTTTACGTACACTGGCCTTACTGCGAGAAGCGCTGCAGTTACTGCA
ACTTCAACAAGTACATCCCTCGCCGCCTGGAGGAGGCTGCCATGCAGAAGTGTCTGGTGACCGAAGCTCAGACGC
TGCTGCGGCTCAGCGGGGTGCAACGGGTGGAGTCTGTGTTCTTTGGTGGGGGGACCCCCAGTCTAGCCAGTCCCC
ACACGGTGGCTGCTGTCTGGAGGCTGTGGCACAGGCAGCCACCTGCCTGCAGACTTGGAAGTCACATTGGAGG
CTAATCCTACTTCAGCTCCGGGCTCCAGACTGGCAGAGTTCGGGGCAGCAGGGGTAAACAGGTTGTCTATAGGCC
TCCAGTCCCTAGATGACACTGAGCTCCGGCTGTTGGGACGGACGCACTCGGCCTGCGATGCTCTGCGGACGCTGG
CAGAGGCCCGGCGCCTCTTTCCCGGGCGCGTGTCTGTAGACTTGATGCTGGGGCTGCCGGCACAGCAGGTGGGGC
CGTGGCTTGGGCAGCTGCAGGAAGTGTGCACCACTGTGATGACCACCTCTCCCTCTACCAGCTGTCCCTGGAGC
GGGGCACCGCACTCTTCGCCCAGGTGCAGCGGGGTGCCCTTCAGCCCCTGACCCGGAGCTCGCAGCTGAGATGT
ACCAGAGGGGCCGGGCTGTCTTCGGGAGGCTGGCTTCACCAGTATGAGGTCTCCAACCTTTGCCCGGAATGGGG
CGCTCAGTACCCACAATTGGACTTACTGGCAGTGTGGTCACTACCTTGGCGTTGGGCCTGGGGCCCATGGACGAT
TTATGCCCCAGGGGGCTGGAGGCCACACCGGGAGGCTCGGATCCAGACACTGGAGCCTGACAACCTGGATGAAGG
AGGTGATGCTGTTTGGCCATGGCACCCGGAAGCGTGTCCCCCTGGGCAGGCTGGAGCTGCTGGAGGAAGTTTTGG
CCCTGGGGCTACGCACCGATGTGGGGATCACTACCAGCACTGGCAGCAGTTTGAGCCCCAGCTGACCCTGTGGG
ATGTGTTTGGAGCGAACAAGGAGGTGCAGGAGCTGCTGGAGCGGGGCTACTGCAGCTGGATCACAGGGGTCTTC
GGTGTTCCTGGGAGGGTCTGGCTGTGCTGGACTCTCTCTTGCTGACCCTCCTGCCTCAGCTCCAAGAAGCCTGGC
AGCAGAGAACCCCTCCCTGTGCCAGGAGGATGACAAAAATGTTCTGTGTTCCAGGGTAATGCCAGGTGGGTT
TTGAGAGCTGGGTGCGTACTGCAGACATCTCTTCTCCGTTGTGCGGTGCCGTCTCTGCTCCTTGTGGTTATTGCT
CAGCCCTGGCATCCCCAGGGGAATGGCAGCAGTGAGGTAGATGGGAGGACATTTCTGGTCAGGGAATGGCATCC
CATTACAGCATCTCAGGACTCACAGGCCAACATGTGTTCCATGGCTGGGAATTGCCTACCACCCACATCAGCTTCT
GTTTACCTTTTTGGCATCAAATAATGAACAGTGTGGAAATCTTTCTACAGGCAATTACCTCCCCAAGAGAAGC
CTTCCTTATTTTGGAGTAAGGTCTTAAGATAGCTGGATGAATCAGGAAAACCATGTCCCCTCTAGGTATTATTAA
TATTAGCAGGAAGGGATCTACTATAGGAATGAAGTATTTATAAACCCTGAAAGGGATAGAGAAGTGAACATTGG
AGAAAGCCAGTAGCAACTGTGAGAAATCAGCAACTGCAGGAGGCACAGAAAACCTCCTGCTGATGGTCTCAGCTT
CCAGCAGCACAAAAGCAGATGATGTACTGGAAAAATGCTCAGAAGATGCTACAAAACCTCATGCCTACTGTCTGCC
ACTGCTGGAGAAGGAATCATGGTTTCTAGAAGTGCCTCTCATTAGTGGACTTTAAAGCAAATCCTGGCTGGCAGG
AAATTCTGAGGAATATAGCTCTTAGGCTTCCAGCCTCTACCATGCAGGAGAGAACACAGAAGGACTGATGTATGT
TGGTGGATCCATGTATGTGTCCAGCACAGCGCCTGCTGGACTCTGAGAACTGGGAAAGATCAGAGCAAGCCTTG
CCTCTTATCTTCGGGAAACCAGAATATGTTTGGGGTGGTAGGAGCCACACAGACTCTTCTGAGCCCCCTCACTCA
CTTCCTTCCCCCTGTGCCTTTCCTTTGAGAGTGAAGGTGGGTGGAGTTGACCAGAGAAAGGGGAGAGAATTCCGG
AAAGACCCAAAGTGTTTGTAATTCTTCTTTGTCTTTTACCTACAGAAATGGTCACATGGTTCTATTTAAATAGC
CTAATAAACACATCTGGAGCCTGT

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FIGURE 4899

MALPGARARGWAAAAARAAQRRRRVENAGGSPSPPEPAGRRAALYVHWPYCEKRCSYCNFNKYIPRRLEEAAMQKCL
VTEAQTLRLRLSGVQRVESVFFGGGTPSLASPHTVAAVLEAVAQAAHLFADLEVTLLEANPTSAPGSRLAEFGAAGV
NRLSIGLQSLDDTELRLLGRTHSACDALRTLAEARRLFPGRVSVDLMLGLPAQQVGPWLGLQELLHHCDDHLSL
YQLSLERGTALFAQVQRGALPAPDPELAAEMYQRGRAVLREAGFHQYEVSNFARNGALSTHNWTYWQCGQYLGVG
PGAHGRFMPQGAGGHTREARIQTLEPDNWMKEVMLFGHGTRKRVPLGRLELLEEVLAIGLRITDVGITHQHWQQFE
PQLTLWDVFGANKEVQELLERGLLQLDHRGLRCSWEGLAVLDSLLLTLPLQLQEAQQRTSPVPGG

[illegible]

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FIGURE 4901

MKAVQADQERERQRRLEVEREAEKKREKQRAKEAQERELRKREKAEERERRKEYDALKAAKREQEKKPKKEAN
QAPKSKSGSRPRKPPPRKHTRSWAVLKLLLLLLLLFGVAGGLVACRVTELQQQPLCTSVNTIYDNAVQGLRRHEIL
QWVLQTD SQQ

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FIGURE 4902A

AGGTGAACAGGTCCTCACGCCCAGCTCCGCGCCCTCACGCGCTCTCGCCGGGACCCCGCTTCCGCTGGCAGCCAT
GGGCCCCGGCCCCAGCCGCGCGCCCCGCGCCCCACGCCTGATGCTCTGTGCGCTCGCCTTGATGGTGGCGGCCGG
CGGCTGCGTCTCTCCGCCCTTCAACCTGGATACCCGATTCTGGTAGTGAAGGAGGCCGGGAACCCGGGCAGCCT
CTTCGGCTACTCGGTGCGCCCTCCATCGGCAGACAGAGCGGCAGCAGCGCTACCTGCTCCTGGCTGGTGGCCCCCG
GGAGCTCGCTGTGCCCAGTGGCTACACCAACCGGACTGGTGTGTGTACCTGTGCCCACTCACTGCCACAAGGA
TGACTGTGAGCGGATGAACATCACAGTGAATAATGACCCTGGCCATCACATTATTGAGGACATGTGGCTTGGAGT
GACTGTGGCCAGCCAGGGCCCTGCAGGCAGAGTTCTGGTCTGTGCCCACCGCTACACCCAGGTGCTGTGGTCAGG
GTCAGAAGACCAGCGGCGCATGGTGGGCAAGTGCTACGTGCGAGGCAATGACCTAGAGCTGGACTCCAGTGATGA
CTGGCAGACCTACCACAACGAGATGTGCAATAGCAACACAGACTACCTGGAGACGGGCATGTGCCAGCTGGGCAC
CAGCGGTGGCTTCACCCAGAACACTGTGTACTTCGGCGCCCCCGGTGCCTACAACCTGGAAAGGAAACAGCTACAT
GATTACGCGCAAGGAGTGGGACTTATCTGAGTATAGTTACAAGGACCCAGAGGACCAAGGAAACCTCTATATTGG
GTACACGATGCAGGTAGGCAGCTTCATCTGCACCCCCAAAACATCACCAATTGTGACAGGTGCCCCACGGCACCG
ACATATGGGCGCGGTGTTCTTGCTGAGCCAGGAGGCAGGCGGAGACCTGCGGAGGAGGCAGGTGCTGGAGGGCTC
GCAGGTGGGCGCCTATTTTGGCAGCGCCATTGCCCTGGCAGACCTGAACAATGATGGGTGGCAGGACCTCCTGGT
GGGCGCCCCCTACTACTTCGAGAGGAAAGAGGAAGTAGGGGGTGGCATCTATGTCTTCATGAACCAGGCGGGAAC
CTCCTTCCCTGCTCACCCCTCACTCCTTCTTCATGGCCCCAGTGGCTCTGCCTTTGGTTTATCTGTGGCCAGCAT
TGGTGACATCAACCAGGATGGATTTTCAAGATATTGCTGTGGGAGCTCCGTTTGAAGGCTTGGGCAAAGTGTACAT
CTATCACAGTAGCTCTAAGGGGCTCCTTAGACAGCCCCAGCAGGTAATCCATGGAGAGAAGCTGGGACTGCCTGG
GTTGGCCACCTTCGGCTATTCCCTCAGTGGGCAGATGGATGTGGATGAGAACCTTACCCAGACCTTCTAGTGGG
AAGCCTGTGACACCACATTGTGCTGCTGCAGGGCCCCGGCCGTCATCAACATCGTCCACAAGACCTTGGTGGCCA
GGCCAGCTGTGCTGGACCCTGCACCTTTCACGCGCCACCTCTTGTGTGCAAGTGGAGCTGTGCTTTGCTTACAACC
AGAGTGCCGGGAACCCCAACTACAGGCGAAACATCACCCCTGGCCTACACTCTGGAGGCTGACAGGGACCGCCGGC
CGCCCCGGCTCCGCTTTGCGGCGAGTGAGTCCGCTGTCTTCCACGGCTTCTTCTCCATGCCCGAGATGCGCTGCC
AGAAGCTGGAGCTGCTCCTGATGGACAACCTCCGTGACAACTCCGCCCATCATCATCTCCATGAACCTACTCTT
TACCTTTGCGGATGCCCGATCGCCCCGGCTGGGGCTGCGGTCCCTGGACGCCTACCCGATCCTCAACCAGGCAC
AGGCTCTGGAGAACCACACTGAGGTCCAGTTCAGAAAGGAGTGCGGGCCTGACAACAAGTGTGAGAGCAACTTGC
AGATGCGGGCAGCCTTCGTGTGAGAGCAGCAGCAGAAGCTGAGCAGGCTCCAGTACAGCAGAGACGTCCGGAAAT
TGCTCCTGAGCATCAACGTGACGAACACCCGGACCTCGGAGCGCTCCGGGGAGGACGCCACAGGCGCTGCTCA
CCCTGGTGGTGCCTCCCGCCCTGCTGCTGTCTCCTCAGTGCGCCCCCCCCGGGGCCTGCCAAGCTAATGAGACCATCT
TTTGCGAGCTGGGGAACCCCTTCAAACGGAACAGAGGATGGAGCTGCTCATCGCCTTTGAGGTGCTCGGGGTGA
CCCTGCACACAAGGGACCTTCAGGTGCAGCTGCAGCTCTCCACGTCGAGTCACCAGGACAACCTGTGGCCCATGA
TCCTCACTCTGCTGGTGGACTATACACTCCAGACCTCGCTTAGCATGGTAAATCACCGGCTACAAAGCTTCTTTG
GGGGACAGTGATGGGTGAGTCTGGCATGAAAACCTGTGGAGGATGTAGGAAGCCCCCTCAAGTATGAATTCCAGG
TGGGCCCAATGGGGGAGGGGCTGGTGGGCCTGGGGACCTGGTCTAGGTCTGGAGTGGCCCTACGAAGTCAGCA
ATGGCAAGTGGCTGCTGTATCCACGGAGATCACCGTCCATGGCAATGGGTCTGGCCCTGCCGACCACCTGGAG
ACCTTATCAACCCTCTCAACCTCACTCTTTCTGACCCTGGGGACAGGCCATCATCCCCACAGCGCAGGCGGCGAC
AGCTGGATCCAGGGGGAGGCCAGGGCCCCCACCTGTCACTCTGGCTGCTGCCAAAAAGCCAAGTCTGAGACTG
TGCTGACCTGTGCCACAGGGCGTGCCCACTGTGTGTGGCTAGAGTGCCCCATCCCTGATGCCCCCGTTGTACCA
ACGTGACTGTGAAGGCACGAGTGTGGAACAGCACCTTCATCGAGGATTACAGAGACTTTGACCGAGTCCGGGTAA
ATGGCTGGGCTACCCTATTCTCCGAACAGCATCCCCACCATCAACATGGAGAACAAGACCACGTGGTTCTCTG
TGGACATTGACTCGGAGCTGGTGGAGGAGCTGCCGGCCGAAATCGAGCTGTGGCTGGTGTGGTGGCCGTGGGTG
CAGGGCTGCTGCTGCTGGGGCTGATCATCCTCCTGCTGTGGAAGTGTGACTTCTTTAAGCGGACCCGCTATTATC
AGATCATGCCCAAGTACCACGCAGTGCGGATCCGGGAGGAGGAGCGCTACCCACCTCCAGGGAGCACCTGCCCA
CCAAGAAGCACTGGGTGACCAGCTGGCAGACTCGGGACCAATACTACTGACGTCTCCTGATCCCACCCCTCC
TCCCCAGTGTCCCTTTCTTCTATTTATCATAAGTTATGCCTCTGACAGTCCACAGGGGCCACACCTTTGGC
TGGTAGCAGCAGGCTCAGGCACATACACCTCGTCAAGAGCATGCACATGCTGTCTGGCCCTGGGGATCTTCCAC
AGGAGGGCCAGCGCTGTGGACCTTACAACGCCGAGTGCACTGCATTCTGTGCCCTAGATGCACGTGGGGCCAC
TGCTCGTGGACTGTGCTGGTGCATACGGATGGTGCATGGGCTCGCCGTGTCTCAGCCTCTGCCAGCGCCAAAAC

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FIGURE 4902B

AAGCCAAAGAGCCTCCCACCAGAGCCGGGAGGAAAAGGCCCTGCAATGTGGTGACACCTCCCCCTTTCACACTG
GATCCATCTTGAGCCACAGTCACTGGATTGACTTTGCTGTCAAACTACTGACAGGGAGCAGCCCCGGGCGCT
GGCTGGTGGGCCCCCAATGACACCCATGCCAGAGAGGTGGGGATCCTGCCTAAGGTTGTCTACGGGGGCACTTGG
AGGACCTGGCGTGCTCAGACCCAACAGCAAAGGAAGTAAAGAAAGGACCCAGAACGGCTTGCTTTCCTGCATCT
CTGTGAAGCCTCTCTCCTTGCCACAGACTGAACTCGCAGGGAATGCAGCAGGAAGGAACAAAGACAGGCAAACG
GCAACGTAGCCTGGGCTCACTGTGCTGGGGCACGGCGGGATCCTCCACAGAGAGGAGGGGACCAATTCTGGACAG
ACAGATGTTGGGAGGATACAGAGGAGATGCCACTTCTCACTCACCCTACCAGCCAGCCTCAGAAGGCCCCAGAG
AGACCCTGCAAGACCACGGAGGGAGCGACACTTGAATGTAGAATAGGCAGGGGGCCCTGCCCCACCCCATCCAGC
CAGACCCACGCTGACCATGCGTCAGGGGCCTAGAGGTGGAGTTCTTAGCTATCCTTGGCTTTCAGAGCCAGCCT
GGCTCTGCCCCCTCCCCATGGGCTGTGTCTTAAGGCCATTTGAGAAGCTGAGGCTAGTTCCAGAAAACCTCTC
CTGACCCCTGCCTGTTGGCAGGCCCCTCCCCAGCCCCAGCCCCCTTCATGGTACTGTAGCAGGGGAATTCCCTC
CCCCTCCTTGTGCCTTCTTTGTATATAGGCTTCTCACGGCGACCAATAAACAGCTCCCAGTTTGT

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FIGURE 4903

GACAATATCAGGTGAGCTGTGGAGGTGGGGTCTTGGAAAGCTGGATGACAGCAGCTGGCAAGGGGATAAGAGAGC
AGTGAGCCCCCTCCCTCAAGGAGGTCTGGCTTTATCCATAGACAGGGCCCTCTGAGGTGGGGCTGAGGTACAAAGG
GGGATTGAGCAGCCCAGGAGAAGAGAGATGGGGGGTTCCCTTCTTCTCTCTCAGATGCATGGTGGACTTAGGA
CCTTGCTGGGGCTGGGGGICTACTGCAGAGATGAAGCTGCTTCTGGCCCTAGCAGGGCTCCTGGCCATTCTGGCC
ACGCCCCAGCCCTCTGAAGGTGCTGCTCCAGCTGTCTGGGGGAGGTGGACACCTCGTTGGTGTGAGCTCCATG
GAGGAGGCCAAGCAGCTGGTGGACAAGGCCTACAAGGAGCGGCGGAAAGCATCAAGCAGCGGCTTCGCAGCGGC
TCAGCCAGCCCCATGGAACCTCTATCTTCAAGCAGCCGGTGGCAGCCACCAGGACGGCGGTGAGGGCCGCT
GACTACCTGCACGTGGCTCTAGACCTGCTGGAGAGGAAGCTGCGGTCCCTGTGGCGAAGGCCATTCAATGTCACT
GATGTGCTGACGCGCGCCAGCTGAATGTGTTGTCCAAGTCAAGCGGCTGCGCTACCAGGACGTGGGGGTGACT
TGCCCGGAGCAGGACAAATACCGCACCATCACCGGGATGTGCAACAACAGACGACGCCACGCTGGGGGCTCC
AACCCTGCCTTTGTGCGCTGGCTGCGGCGGAGTATGAGGACGGCTTCTCTCTTCCCTACGGCTGGACGCGCGG
GTCAAGCGCAACGGCTTCCCGGTGGCTCTGGCTCGCGCGGTCTCCAACGAGATCGTGCGCTTCCCCACTGATCAG
CTGACTCCGGACCAGGAGCGCTCACTCATGTTTCAATGGGGCCAGCTGTTGGACCACGACCTCGACTTCACC
CCTGAGCCGGCCGCGCGGGCTCCTTCGTCACTGGCGTCAACTGCGAGACCAGCTGCGTTCAGCAGCCGCCCTGC
TTCCCGCTCAAGATCCCGCCCAATGACCCCCGCATCAAGAACCAAGCCGACTGCATCCCGTTCTTCCGCTCCTGC
CCGGCTTGCCCCGGGAGCAACATACCATCCGCAACCAGATCAACGCGCTCACTTCTTCTGTTGGACGCCAGCATG
GTGTACGGCAGCGAGGAGCCCTGGCCAGGAACCTGCGCAACATGTCCAACCAGCTGGGGCTGCTGGCCGTCAAC
CAGCGCTTCCAAGACAACGGCCGGGCGCTGCTGCCCTTTGACAACCTGCACGATGACCCCTGTCTCCTACCAAC
CGCTCAGCGCGCATCCCCTGCTTCTTGGCAGGGGACACCCGTTCCAGTGAGATGCCCGAGCTCACCTCCATGCAC
ACCCTCTTACTTCCGGAGCACAAACGGCTGGCCACAGAGCTCAAGAGCCTGAACCCTAGGTGGGATGGGGAGAGG
CTCTACCAGGAAGCCCGGAAGATCGTGGGGGCCATGGTCCAGATCATCACTTACCGGGACTACCTGCCCCCTGGTG
CTGGGGCCAACGGCCATGAGGAAGTACCTGCCCACGTACCGTTCCCTACAATGACTCAGTGAGCCACGCATCGCC
AACGTCTTACCAATGCCTTCCGCTACGGCCACACCCCTCATCCAACCCTTCATGTTCCGCCTGGACAATCGGTAC
CAGCCCATGGAACCCAACCCCGTGTCCCCCTCAGCAGGGTCTTTTTTGCCTCCTGGAGGGTCTGTGCTGGAAGGT
GGCATTGACCCCATCCTCCGGGGCTCATGGCCACCCCTGCCAAGCTGAATCGTCAGAACCAATTGCAGTGGAT
GAGATCCGGGAGCGATTGTTTGGAGGTCATGAGGATTGGGCTGGACCTGCCTGCTCTGAACATGCAGCGCAGC
AGGGACCACGGCCTCCAGGATACAATGCCTGGAGGCGCTTCTGTGGGCTCCCGCAGCCTGAAACTGTGGGCCAG
CTGGGCACGGTGTGAGGAACCTGAAATTGGCGAGGAACTGATGGAGCAGTATGGCAGCCCCAACACATCGAC
ATCTGGATGGGCGCGTGTCCGAGCCTCTGAAGCGCAAAGGCCGCTGGGCCACTCCTCGCCTGCATCATCGGT
ACCCAGTTCAGGAAGCTCCGGGATGGTGATCGGTTTGGTGGGAGAACGAGGGTGTGTTACAGCATGCAGCAGCGA
CAGGCCCTGGCCCAGATCTCATTGCCCCGGATCATCTGCGACAACACAGGCATCACACCCTGTCTAAGAACAAC
ATCTTCATGTCCAACCTCATATCCCCGGGACTTTGTCAACTGCAGTACACTTCTGCAATTGAACCTGGCTTCTTGG
AGGGAAGCCTCCTAGAGGCCAGGTAAGGGGTGCAGCAGTGAGGGGTATATCTGGGCTGGCCAGTTGGAACCACG
GAGATCTCCTTGCCCTAGATGAGCCCAGCCCTGTTCTGGGTGCAGCTGAGAAAATGAGTGACTAGACGTTCAATT
GTGTGCTCATGTATGTGCGAAGTATATAAATTGGCTTTTCATGCGTGTGTGTTGTCTGAACATGGGGAGTGTTTC
ATGGGTTATGTGTATGTGCCATTTATGTGAGTGTGTGTTGTGCTGATGAGAATACTGAGTATGTGGAAGGCAGC
AGAGCGGACTGGTGAGGAGCACAGCTCAGGAACCTAGACTGCCTGGGTTCGAATCCTGGCTCTGTGGCTTGCTAGC
TATGTGACCTTGAGCAAATTACCCTCCTTAAACAAGAGTTTTCTTCTTGTAAATTACATCTGTCTATGGTTTTCTT
GGAGGGCCCACTTGTATCCTCTGGTTCTTCAATTTATTGAGCACCTACTACATGCAAGGCACTGTACTAGGCGTGA
GAAGCATATAGAGGCAAGAAAGAGATACCAAGATGCCATCTGTGTCTGGTTAGCAGAGCTGGACCAGTGGTGCC
TTGGAGGGGATAAGCCAGCTGCAGCTGGGCTGTGTGGTTGACTTATGGGCCCAGCCAGCCAGGCTCAGGCCATGGC
TCCCTTTTTCTTCTCACCTGATTTCTTGCTTATTCACTGAAGTTCTCCTGAAGAGGAACTGGGCCTGTTGCC
CTTCTGTACCATTTATTTGCTCCCAATGTTTATGATAATAAAGGCACCGCTGATGGGGACCTCC

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FIGURE 4904

MGVPPFFSSLRCMVDLGPCWAGGLTAEMKLLALAGLLAILATPQPSEGAAPAVLGEVDTSLVLSSMEEAKQLVDK
AYKERRESIKQRLRSGSASPMELLSYFKQPVAATRTAVRAADYLHVALDILLERKLRSIWRRPFNVTDVLTTPAQLN
VLSKSSGCAYQDVGVTCPEQDKYRTITGMCNNRRSPTLGASNRAFVRWLPAEYEDGFSLPYGWTPGVKRNFGFVA
LARAVSNEIVRFPTDQLTPDQERSLMFMQWQQLLDHDLDFTEPAARASFVTGVNCETSCVQQPPCFPLKIPPND
PRIKNQADCIPFFRSCPACPGSNITIRNQINALTSFVDASMVYGSEEPLARNLRNMSNQLGLLAVNQRFQDNGRA
LLPFDNLHDDPCLLTNRSARIPCFLAGDTRSSEMPELTSMTHTLLREHNRLATELKSINPRWDGERLYQEARKIV
GAMVQIITYRDYLPVLGPTAMRKYLPTYRSYNDSDPRIANVFTNAFRYGHITLIQPFMFRLDNRYQPMENPRV
PLSRVFFASWRVVLEGGIDPILRGLMATPAKLNRQNQIAVDEIRERLFEQVMRIGLDLPALNMQRSDHGLPGYN
AWRRFCGLPQPETVGLGTVLRLNLKARKLMEQYGTNNIDIWMGGVSEPLKRKGRVGPLLACIIGTQFRKL RDG
DRFWWENEGVFSMQQRQALAQISLPRIICDNTGITT VSKNNIFMSNSYPRDFVNCSTLPALNLASWREAS

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FIGURE 4905

TTCTTCCGCTCCTGCCCGGCTTGCCCCGGGAGCAACATCACCATCCGCAACCAGATCAACGCGCTCACTTCCTTC
GTGGACGCCAGCATGGTGTACGGCAGCGAGGAGCCCCCTGGCCAGGAACCTGCGCAACATGTCCAACCAGCTGGGG
CTGCTGGCCGTCAACCAGCGCTTCCAAGACAACGGCCGGGCCCCTGCTGCCCTTTGACAACCTGCACGATGACCCC
TGTCTCCTCACCAACCGCTCAGCGCGCATCCCCTGCTTCCTGGCAGGTCAGCTTTGGGGTGGGGACCAGAGGTGG
CATAGGAGATGTTCCCTGTTGGAGCCACAGGGACACCCGTTCCAGTGAGATGCCCGAGCTCACCTCCATGCACAC
CCTCTTACTTCGGGAGCACCAACCGGCTGGCCACAGAGCTCAAGAGCCTGAACCCTAGGTGGGATGGGGAGAGGCT
CTACCAGGAAGCCCCGAAGATCGTGGGGGCCATGGTCCAGGTAGGCCGTCTTGAACACCGGGCACACGGGATCCA
GATGTGTCCCTGCAACATCCTAGCTGTGTGACCTTGGGCAAGTTCCTAACGCTCCTGAGCCTTGCCTTCTTCATC
CATGAGGCTGTAAGGATTATAATACATATATGAAAACACCTTTCAGATAGTAAGTGCTTGACAAAGCCTCCTTCC
CTTCCCTCTCCTTCTTCGCAGGTTTGCTCCCTGCAGTCTTCTTTCCCTGTGGGTCTGTTATTGGTGTGGGAGGGT
TGAATGTTTGGTTTAGCGCCCAAGTAGCTGTTCAGTAAATTCTTCTTCCCTCCATCTCACTGTCACTCTTAGCTC
CTTTACCCACTCACCTCTTCTTTTTTAAAATTAAAAAAATTATAGGGCTGGGCGCGGTGGCTCATGCCTGTAATCC
CAGCACTTTGGGAGGCGGAGGCGGGTGGATCACGAGGTGAGGAGATCAAGACCATGCTGGCTAACACGGTGAAC
CCCATCTCTACTAAAAATACAAAAATTAGCCGGGCGTGGTGGCGGGCACCTGTAGTCCCAGCTACTTGGGAGGCT
GAGGCAGGAGAATGGCGTGAACCTGGCTGGAGTGCAGTGGTGCATCTTGGCTCACTGCAACCTCCACCTTTCAG
GCTCAAGCCATTCTCCC

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FIGURE 4906

AGCCAGTTTGAAGTAGATCTGTACCAAAATGAAACAGCCTGTCAGAGTCCTTTGGATTATCAGTACCGTCAGGAG
ATCCTGAAGCTGGAGAATTCGGGTGGCAAGAAAAACCGACGAATCTTTACCTACACTGACTCTGATAGATACACC
AATTTGGAGGAGCACTGTCAGAGAATGACCACCTGCAGCCAGCGAGGTGCCTTCATTCTTGGTCGAGCGAATGGCA
AATGTCAGGCGTCGCCGGCAGGACAGGCGAGGGATGGAGGGCGGCATCCTCAAGTCACGCATCGTCACCTGGGAG
CCCTCAGAAGAGTTTGTTCAGGAACAACCACGTCATTAACACCCCTCTTCAGACAATGCACATCATGGCAGACCTG
GGGCCCTATAAAAAGCTTGGCTATAAGAAGTATGAACATGTCCTGTGTACTCTGAAGGTGGATAGCAATGGTGTG
ATCACAGTAAAGCCTGACTTCACGGGCCTCAAAGGACCCTACAGGATTGAGACGGAGGGGGAGAAGCAGGAGCTG
TGGAAATATACGATCGACAATGTTTCCCCCACGCACAGCCGGAGGAGGAGGAGCGGGAACGGCGAGTGTTCAAG
GATCTTTATGGCCGGCACAAGGAGTATCTCAGCAGCCTCGTAGGCACCGACTTTGAGATGACTGTCCAGGTGCC
CTCCGGCTCTTTGTAAATGGAGAGGTGCTTTTACGCCAAGGCTATGAGTATGACAATCTCTACGTCCACTTCTTT
GTAGAATTGCCAACTGCTCACTGGTCAAGCCCAGCATTCCAGCAGCTCTCAGGAGTAACACAGACCTGCACCACC
AAGTCCCTGGCAATGGACAAGGTGGCTCACTTCTCTACCCATTACGTTTGAAGCCTTCTTCTCCATGAGGAT
GAATCTTCTGATGCACTCCCGGAGTGGCCTGTGCTCTACTGTGAGGTCTCTCGCTGGACTTCTGGCAGAGGTAC
CGTGTGGAAGGCTATGGGGCTGTGGTGTGCTGCCACTCCAGGCTCACACACCCTGACAGTCTCCACGTGGAGA
CCTGTGGAGCTTGGCACGGTGGCTGAGCTGAGGAGGTTTTTTCATTGGCGGTTCTCTGGAACCTGGAGGACCTCTCC
TATGTACGGATACCAGGATCCTTCAAGGGGGAACGCCTGAGCCGCTTTGGACTCCGCACAGAGACCACAGGCACT
GTCACCTTCCGCTTGCACTGTCTGCAGCAGTCCAGGGCCTTCATGGAATCGAGCTCCCTTCAGAAAAGGATGCGG
AGTGTGTTGGACCGTCTGGAAGGGTTTCAGCCAGCAGAGTTCCATTACAAATGTGCTAGAGGCCCTCCGTCGAGCC
CGGCGCCGCATGCAGGAGGCCCGGGAAAGCCTCCCGCAGGACCTAGTGAGCCCCCTCTGGAACCTGGTCTCCTAG

CTCACAGCAGCCCTGGCCACAGTGCAAGAGGACAAGATGGGGGATATCTGAGGCCAGTGCTCTCCTGCCTCTTC
GTCTTTCTGATTAGAGACCACGTTGGTCTGCTGAGAACCAGAAAAGCTGGGAAATTCCCGGCTGGCCCTCTGCC
TAGCCTTCTGCAGGGTCTTCTCCCTACCTGTGGAAATAAAGCCAGAGACCCTGTGGCCCCCTTTATATTTGC
AGCCACTGTCAGATGGGCATCACAGCAAGGCAGGCTTTTTGATCTGAAGCTGTTTGGGGTGACCCCATAGTGAGT
CTGGCCTTGACTCACTTTTTCTGGCTTGTACTCACAGTAGCAGGGGATCTGCTGTTCTCCACCCTTTAAAAATGGA
GCCTTTTCATCTTCCAAGACCAAGAAGGAAGGTGGACGGTGAGAGGGTCTTAAATCCCCAGCCTGTGAGTC
TCAGCCTCTTTCCAGGGAAGCCTCATTCTACTGCTTGGGGCTTGCTGAGGTTGAGATATGAGTTATTTCTGAGTA
AGTGAAGGCTGAAGGCAGTGCTGAGTCCTTTCTGCTAGCTGGGTGGTATCTTTTACTGTGTTTTTTGTGTTGTTT
GTTTTTTTGTGTTTTTTGTACATAAACCCCTTTTATTTTGGAAAAAAAAAAAAAAAAA

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FIGURE 4907

MTTAASEVPSFLVERMANVRRRRQDRRGMEGGILKSRIVTWEPSEEFVRNNHVINTPLQTMHIMADLGPYKKLGY
KKYEHVLCTLKVDSNGVITVKPDFTGLKGPYRIETEGEKQELWKYTIDNVSPHAQPEEEERERRVFKDLYGRHKE
YLSSLVGTD FEMTVPGALRLFVNGEVVS AQGYEYDONLYVHFFVELPTAHWSSPAFQQLSGVTQTCTTKSLAMDKV
AHFSYPFTFEAFFLHEDESSDALPEWPVLYCEVLSLDFWQRYRVEGYGAVVLPATPGSHTLTVSTWRPVELGTVA
ELRRFFIGGSLELEDLSYVRIPGSFKGERLSRFGRLRTETTGTVTFRHLCLQQSRAFMESSLQKRMRSVLDRLLEG
FSQQSSIHNVL EAFRRARRRMQEARESLPQDLVSPSGTLVS

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FIGURE 4908

GGCCTGTTCTCGAGTCCGCGCTTTTCGTCAACCGCCATGTCGGGAGGTGGTGTGATTTCGTGGCCCCGCAGGGAACA
ACGATTGCCGCATCTACGTGGGTAACTTACCTCCAGACATCCGAACCAAGGACATTGAGGACGTGTTCTACAAAT
ACGGCGCTATCCGCGACATCGACCTCAAGAATCGCCGCGGGGGACCGCCCTTCGCCTTCGTTGAGTTCGAGGACC
CGCGAGACGCGGAAGACGCGGTGTATGGTCGCGACGGCTATGATTACGATGGGTACCGTCTGCGGGTGGAGTTTC
CTCGAAGCGGCCGTGGAACAGGCCGAGGCGGCGGGGGTGGAGGTGGCGGAGCTCCCCGAGGTGCTATGGCC
CCCCATCCAGGCGGTCTGAAAACAGAGTGGTTGTCTCTGGACTGCCTCCAAGTGGAAAGTTGGCAGGATTTAAAGG
ATCACATGCGTGAAGCAGGTGATGTATGTTATGCTGATGTTTACCGAGATGGCACTGGTGTCTGGAGTTTGTAC
GGAAAGAAGATATGACCTATGCAGTTCGAAAACCTGGATAACACTAAGTTTAGATCTCATGAGGGAGAACTGCCT
ACATCCGGGTTAAAGTTGATGGGCCAGAGTCCAAGTTATGGAAGATCTCGATCTCGAAGCCGTAGTCGTAGCA
GAAGCCGTAGCAGAAGCAACAGCAGGAGTCGCAGTTACTCCCCAAGGAGAAGCAGAGGATCACCACGCTATTCTC
CCCGTCATAGCAGATCTCGCTCTCGTACATAAGATGATTGGTGACACTTTTTGTAGAACCCATGTTGTATACAGT
TTTCCTTTATTTCAGTACAATCTTTTCATTTTTTAATTCAAACCTGTTTTGTTTCAGAATGGGCTAAAGTGTTGAATT
GCATTCTTGTAATATCCCTTGCTCCTAACATCTACATTCCCTTCGTGTCTTTGATAAATTGTATTTAAGTGAT
GTCATAGACAGGATTGTTTAAATTTAGTTAACTCCATACTCTTCAGACTGTGATATTGTGTAAATGTCTATCTGC
CCTGGTTTGTGTGAACCTGGGATGTTGGGGGTGTTTGTTGTTATCTTACCTGGGGAAGTTCTTATGTTTATCTTGC
TTTTCATGTGTCTTTCTGTAGACATATCTGAAGAGATGGATTAAGAATGCTTTGGATTAAGGATTGTGGAGCACA
TTTCAATCATTTTAGGATTGTCAAAGGAGGATTGAGGAGGATCAGATCAATAATGGAGGCAATGGTATGACTCC
AAGTGCTATTGTACAGATGAAATTGGCAGTATTGACCTTATACTAAAAGGCAGGGGTAAAAATGATTATATAC
ATTTTCCTTAAACACTTGCAAACATTTTATTTCAGTTGTCTTTAGCTACAATTGCTTTGCTTTTTAAACCTTGGC
AATTGTGGCAAATATATTGCCCATTTTGTAGCAACTTATTTTGCTCCCTTCCCCCATTTTGTTTAATAGG
GACTAATGTGGGAAGAAGTGGCTAATTTGTACAGTGCTTAGTTACAAGTGTAAATGTGTGACCTGCTGTTGGTG
TACATGTGGGTACAGGTGTTTTTAAATCCAACAAGATAGAGTATAATATCAATACTGCTAAATCTGCATGTCCT
CTGTGTGACTGATAGAGCGTTGCTATTTTCATTTTTTAAAGACAAAATGAAAGCAAAATATAGAGTTCCAATGTAT
TGGTGTAGATAATCTAGTTGGGAATACTTTTAAGTCTCACCTTCCCCTTTAAACTAATATTTCATAATTGGTTCAT
ATGTTTAAAAGACTTTAATTTACAAATTAAATTGCAAATGGGAGCATTAGATTTAGTTTTAGACTTAGGTGGGTA
GCAATGCCAGTAAACTTAAATTACGTAACCTTCTTGCAACCACGAAACCTGTAATACGCTGTACAGTAACAAGTGT
TGGCATTATCAGTTGAACTGTAAATACAAAATGCTTCTTCCAATTAGTCTCTATGATGATTAAGTTTCTAAAAAT
TATCTGAACACCATTTCAGAAACTTGTTTTGGGGAATTTGATAGTTATTGATGTGCATCTGTTAAACTGATGACAG
ACATAACTCATCATTTCCCAGAAACCTTTTTTGATTACAGTATCTAACATTTTGCCTCCTCTTTTTTGGTTTTTC
TGGTTATAAAGGTTTGGATTGGAGAGGGCTCACTGGATCCCAATCCTTGGAGCTGGATCATTGGATTCAAATCAT
AATGTGGATAGGATAGGGAGGATGAATTACCAGGATTCATGGAGCGGGATCAGATTACCAGGAACATAGGAGTGG
ATTCTGCCCCAACCAACCGCATTTCGTGTGGATTTTTTTATTCAACTTAATTGGCTATTCCAAAGATTTTTTTT
TTCCTATTTTGGACGATTGGAGCCCTTAAGATGCACGATGGAATTGTGTTTTGCGTTTTTTGGTAAAGGAGCAA
AGCGAGGACCTGGAGATAAACGCTGGAGCAATCTCCTTGGAAAGGATTCAGCACGAGTAGATGGTAAACATTTAA
GGGAAAGGGGGGGTTTTGTTTAAATAGTAAATCAGTAAGTCACTTCTAAATTTAAAGAAAACAAAATTGGAGTT
GAAGAATAAGTAGGTTTCCAATTGGCTATTGCCGTTTTCTTTGAAAAATAAACATTTTTTAAAAACAAAAAA
AAAAAAA

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FIGURE 4909

MSGGGVIRGPAGNNDCRIYVGNLPPDIRTKDIEDVFYKYGAIRDIDLKNRRGGPPFAFVEFEDPRDAEDAVYGRD
GYDYDGYRLRVEFPGRSGRGTGRGGGGGGGGGAPRGYGPSSRRSEN RVVVSGLPPSGSWQDLKDHMREAGDVCYA
DVYRDGTGVVEFVRKEDMTYAVRKLDNTKFRSHEGETAYIRVKVDGPRSPSYGRSRSRSRSRSRSRSRSRNSRSRS
YSPRRSRGSPRYSPRHSRSRST

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FIGURE 4910

ATGGGTAAGATCCGGAAGGCCCAAGGAGAAGGGCTGCCCCGCCCCTGCCCCCTGCTGGTCCAGCCCAACCTCCCC
TTTGGGTACCCAGTCCACGGAGTGGAGGTGATGCCCCCTGCACACGGTTCCCATCCCAGGCCTCCAGTTTGAAGGA
CCCGATGCCCCCGTCTATGAGGTACCCCTGACAGCTTCTCTGGGGACACTGAACACCCTTGCTGATGTCCCAGAC
AGTGTGGTGCAGGGCAGAGGCCAGAAGCAGCTGATCATTCTTACCAGTGACCGGAAGCTGTTGAAGTTCATTCTT
CAGCACGTGACATACACCAGCACGGGGTACCAGCACCAGAAGTACTATCCCCACATTGCCATTGACCCCATAGAG
CCACTCGAGGAGAGAACAAATCATGCTGTGCGCTTTGCACCTGTGAGTCTGGAGTCCAGGTCCTCAGTGGCCAAG
TTTCCAGTGACCATCCGCCATCCTGTCATACCCAAGCTATACGACCCTGGACCAGTGTTCTTTCAGTGTAGTCTT
AATCAGACTATTCAACTCCTCATCCCCAGACACTGGTAGTATCTGGCACCAGGTGGGGTGGGAAGACAACCCGT
GAGTATTACACCTTCATGTGGGTACTTTGCCATTGACCTAAACAACAAATCAGCTAAACAGCAGGAAGTCCAA
TTCAAAGCTTACTACCTGCCCAAGGATGATGAGTATTACCAGTTCTGCTATGTGGATGAGGATGGTGTGGTCCGG
GGAGCAAGTATTCTTTCCAATTCCGTCCAGAAAATGAGGAAGACATCCTGGTTGTTACCACTCAGGGAGAGGTG
GAAGAGATTGAGCAGCACACAAGGAGCTTTGCAAAGAAAACCAGGAGCTGAAGGACAGCTGTATCAGCCTCCAG
AAGCAGAACTCAGACATGCAGGCTGAGCTCCAAAAGAAGCAGTATCTTTGA

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FIGURE 4911

[illegible]

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FIGURE 4912

MEETIKDPPTSAVLLDHCHFSQVIFNSVEKFYIPGGDVTCHYTFTQHFIPRRKDWIGIFRVGWKTTREYYTFMWV
TLPIDLNNKSAKQQEVQFKAYYLPKDDEYYQFCYVDEDDGVVRGASIPFQFRPENEEDILVVTTQGEVEEIEQHKN
ELCKENQELKDSCISLQKQNSDMQAELOKKQELETLSINKKLELVKEQKDYWETELLQLKEQNQKMSSENEK
MGIRVDQLQAQLSTQEKEMEKLQGDQDKTEQLEQLKKENDHLFLSLTEQRKDQKKLEQTVEQMKQNETTAMKKQ
QELMDENFDLSKRLSENEIICNALQRQKERLEGENDLLKRENSRLLSYMGLDFNSLPYQVPTSDEGGARQNPGLA
YGNPYSGIQESSPSPLSIKKCPICKADDICDHTLEQQQMQLCFNCPICDKIFFATEKQIFEDHVFCHSL

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FIGURE 4913

AAAAAATGCTTCTGTGCTCTAAGATATATATGTGTGTGTGTGTGCTACATATATATTTTTAAGAAAGGACCATC
TCTTTAGGATATATTTTTAAATTCTTTGAAACACATAACCAAATGGTTTGATTCACTGACTGACTTTGAAGCTG
CATCTGCCAGTTACACCCCAAATGGCTTTAATCCCCCTCTCGGGTCTGGTTGCCTTTTGCAGTTTGGGTTGTGGAC
TCAGCTCCTGTGAGGGGTCTGGTTAGGAGAGAGCCATTTTTAAGGACAGGGAGTTTTATAGCCCTTTTCTACTTT
CCTCCCCCTCCTCCAGTCCTTATCAATCTTTTTTCTTTTTCTTGACCCCTCCTTCTGGAGGCAGTTGGGAGCT
ATCCTTGTTTTATGCCTCACTATTGGCAGAAAAGACCCCATTTAAAACCCAGAGAACACTGGAGGGGGATGCTCTA
GTTGGTTCTGTGTCCATTTTTCTCTGTGCCAAAGACAGACAGACAGAGGCTGAGAGAGGCTGTTCTGAATCAAA
GCAATAGCCAGCTTTTGACACATACCTGGCTGTCTGAGGAGGAAGGCCTCCTGGAACTGGGAGCTAAGGGCGAG
GCCCTTCCCTTCAGAGGCTCCTGGGGGATTAGGGTGTGGTGTTCGCCAAGCCAAGGGGTAGGGAGCCGAGAAATT
GGTCTGTGCGGCTCCTGGTTGCATTTGGGGAAGGAGAGGAAGTTGGGGCTCCAGGTAGCTCCCTGTTGTGGGAC
TGCTCTGTCCCCTGCCCCTACTGCAGAGATAGCACTGCCGAGTTCCCTTCAGGCCTGGCAGACGGGCAGTGAGGA
GGGGCTCAGTTAGCTCTCAAGGTGCCTTCCCCTCCTCCCAACCCAGACATACCCTCTGCCAACTGGGAACCA
GCAGTGCTAGTAACCTCACAGAGCCCCAGAGGGCTGCTTGAGCCTTCTTGCTCCACAGGAGAAGCTGGTGC
CTCTAGGCAACCCCTTCTCCACCTCTCATCAGGGGTGGGGTTCTCCTTTCTTTCCCCTGAAGTGTATGGG
GAGATCCTAGTGGCTTTGCCATTCAAACCACTCGACTGTTTGCTGTTTCTTGAAAACCACTAGAAAGGAAACAG
CACAGCCTGTACAGTAATTGCAGGAAGATTGAAGAAAAATCCTCATCAATGCCAGGGGACATAAAAGCCATTT
CCTTCCAAATACTCGACAATTTAGATGCAGAACATTTCTCTGTATTGAGACTTAGAGTAACACCAGCTGAAAAC
GCAGTTTCTTTCTTTGGATACATAAGGCTTCTCTATCGGGGTACGGGACAGGGAGGAGGCCTCATGTCTGAAGG
GGGATTTAGGGGCGAGAGCCCCAGCCCTGACCCTCGGTCTGTGCACCGCTTTGGGGCACAGTCTGATGGCGCCT
TTGCTGGCGCCTTAGTATGGTTGACTCCGGATGGACAAAAGAAAAAAATTTTTTTCTTGAATGAAATAGCAGG
AAGCTCCTCGGGAGCATGTGTTTTGATTAACCGCAGGTGATGGATGCTACGAGTATAAATGGATTAACCTACCTCA
ATCCTTACAGTAAGATTGGAACCTAAGGGCAGGGACTCATGCATAAGGGTATGAATCCCAGCCAGGACAAGTGAGT
TGAGGCTTGTGCCACAAAAGTTTTGCTTGGGGAACAGGCAGGCCTGCCAGGATCCCCCATATCGATTGGGC
TGGGAGGGCTGGCCATGAGGTCCCCACTTTCTGCTTTCTTGCCCATGTGTACCCCTTTGGCCTCCAGCTTGTC
CCTCTCTCACTTTCTATAGCTTTGTTGGACCAGATGGTGAGGAAAGGAATGGCCTCTCCCTTCTAGAGGGGGCT
GGCTGGAGTGAGACCTGGGGCTTGGCCTGGAACCCACCACAGCCCCAAAGTCAGGAAGCCTGGGGAAACCAGA
GCTGAGACCTCTTCAACAGGGTTTCTTTGAGATCCTACACCTCCATTGGGCCCTTTTTAGTCTTCAATGGGGGC
CCAGTTGGCTCTAGAAGGAGAAGAGGTGAAGCAGGATCCTTTGCCCTGGGGGAGTCTGAGGGCGCGGTCCTTGGA
CTCATTAGGCCCGTCTTTGTAGTTGGGGGAGTTCCACTGGGCGATCCCAGCCCCCTCCCCACCCACCCTCTAATGG
ACCTCCTCATAGAAGCCCCATTTCACTTTGTTTTATCTACCTCTTAGCAAAACAATAGATAAATTAGGTAGTGG
CAGCTCCACTTGCTTAGGTTAGGGGGGGAAAAAGATTCTTTTTTCAAAGGAAAAAAATATTACCTTGAGAATAC
TTTCCAAAAAATAAAATTAAAAA

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FIGURE 4914

MALIPSRVWLPFAVWVDSAPVRGLVRREPFLRTGSFIALFYFPPLLPVLINLFSFFLTSPFWRQLGAILVYASL
LAEKTPFKTQRTLEGDALVGSVSIFLCAKDRQTEAERGCS

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FIGURE 4915

GGGACGTGGAGACCCGGGGTCCCGGCAGCCGGGCGGCCCGCGGGCCCAGGGTGGGGATGCACCGCCGCGGGGTGG
GAGCTGGCGCCATCGCCAAGAAGAACTTGCAGAGGCCAAGTATAAGGAGCGAGGGACGGTCTTGGCTGAGGACC
AGCTAGCCCAGATGTCAAAGCAGTTGGACATGTTCAAGACCAACCTGGAGGAATTTGCCAGCAAACACAAGCAGG
AGATCCGGAAGAATCCTGAGTTCCGTGTGCAGTTCCAGGACATGTGTGCAACCATTTGGCGTGGATCCGCTGGCCT
CTGGAAAAGGATTTTGGTCTGAGATGCTGGGCGTGGGGGACTTCTATTACGAACTAGGTGTCCAAATTATCGAAG
TGTGCCTGGCGCTGAAGCATCGGAATGGAGGTCTGATAACTTTGGAGGAACTACATCAACAGGTGTTGAAGGGAA
GGGGCAAGTTTCGCCCAGGATGTCAGTCAAGATGACCTGATCAGAGCCATCAAGAACTAAAGGCACTTGGCACTG
GCTTCGGCATCATCCCTGTGGGCGGCACTTACCTCATTAGTCTGTTCCAGCTGAGCTCAATATGGATCACACCG
TGGTGCTGCAGCTGGCAGAGAAGAATGGCTACGTGACTGTCAGTGAGATCAAAGCCAGTCTTAAATGGGAGACCG
AGCGAGCGCGGCAAGTGCTGGAACACCTGCTGAAGGAAGGGTTGGCGTGGCTGGACTTACAGGCCCCAGGGGAGG
CCCACTACTGGCTGCCAGCTCTCTTCACTGACCTCTACTCCCAGGAGATTACAGCTGAGGAGGCCAGAGAAGCCC
TCCCCTGACTGCATGTGGAAGGGCACACAGCAGCAGGCAGGGAGGAGGCGGAGGTGGCAAATAAACCTGGGCAAT
TTTGTTTATACAAAAAATAGAAAAAA

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FIGURE 4916A

AGCAGACGGGAGTTTCTCCTCGGGGTCGGAGCAGGAGGCACGCGGAGTGTGAGGGCCACGCATGAGCGGACGCTAA
CCCCCTCCCCAGCCACAAAGAGTCTACATGTCTAGGGTCTAGACATGTTTCAGCTTTGTGGACCTCCGGCTCCTGC
TCCTCTTAGCGGCCACCGCCCTCCTGACGCACGGCCAAGAGGAAGGCCAAGTCGAGGGCCAAGACGAAGACATCC
CACCAATCACTGCGTACAGAACGGCCTCAGGTACCATGACCGAGACGTGTGGAAACCCGAGCCCTGCCGGATCT
GCGTCTGCGACAACGGCAAGGTGTTGTGCGATGACGTGATCTGTGACGAGACCAAGAAGTGTCCCGGCGCCGAAG
TCCCCGAGGGCGAGTGCTGTCCCGTCTGCCCGACGGCTCAGAGTCACCCACCGACCAAGAAACCACCGCGCTCG
AGGGACCCAAGGGAGACACTGGCCCCGAGGCCAAGGGGACCCGACGGCCCCCTGGCCGAGATGGCATCCCTG
GACAGCCTGGACTTCCCGGACCCCCCGGACCCCCGACCTCCCGGACCCCCCTGGCCTCGGAGGAACTTTGCTC
CCCAGCTGTCTTATGGCTATGATGAGAAATCAACCGAGGAATTTCCGTGCCCTGGCCCCATGGGTCCCTCTGGTC
CTCGTGGTCTCCCTGGCCCCCTGGTGCACCTGGTCCCCAAGGCTTCCAAGGTCCCCCTGGTGAGCCTGGCGAGC
CTGGAGCTTCAGGTCCCATGGGTCCCCGAGGTCCCCAGGTCCCCCTGGAAAGAATGGAGATGATGGGGAAGCTG
GAAACCTGGTCTGCTGGTGAGCGTGGGCCTCCTGGGCCTCAGGGTGCTCGAGGATTGCCCGAACAGCTGGCC
TCCCTGGAATGAAGGGACACAGAGGTTTCAGTGGTTTGGATGGTGCCAAGGGAGATGCTGGTCTGCTGGTCCTA
AGGGTGAGCCTGGCAGCCCTGGTGAAAATGGAGCTCCTGGTCAGATGGGCCCCCGTGGCCTGCCTGGTGAGAGAG
GTCGCCCTGGAGCCCCCTGGCCCTGCTGGTGCTCGTGGAATGATGGTGCTACTGGTGCTGCCGGGCCCCCTGGTC
CCACCGGCCCCGCTGGTCTCCTGGCTTCCCTGGTGCTGTTGGTGCTAAGGGTGAAGCTGGTCCCCAAGGGCCCC
GAGGCTCTGAAGGTCCCCAGGGTGTGCGTGGTGAGCCTGGCCCCCTGGCCCTGCTGGTGCTGCTGGCCCTGCTG
GAAACCTGGTGCTGATGGACAGCCTGGTGCTAAAGGTGCCAATGGTGCTCCTGGTATTGCTGGTGCTCCTGGCT
TCCCTGGTGCCCCGAGGCCCTCTGGACCCCAGGGCCCCGGCGCCCTCCTGGTCCCCAAGGGTAACAGCGGTGAAC
CTGGTGCTCCTGGCAGCAAAGGAGACACTGGTGCTAAGGGAGAGCCTGGCCCTGTTGGTGTTCAAGGACCCCCCTG
GCCCTGCTGGAGAGGAAGGAAAGCGAGGAGCTCGAGGTGAACCCGACCCACTGGCCTGCCCGGACCCCCCTGGCG
AGCGTGGTGACCTGGTAGCCGTGGTTTCCCTGGCGCAGATGGTGTTGCTGGTCCCCAAGGGTCCCGCTGGTGAAC
GTGGTTCTCCTGGCCCTGCTGGCCCCAAAGGATCTCCTGGTGAAAGCTGGTCTGCCGGTGAAGCTGGTCTGCCTG
GTGCCAAGGGTCTGACTGGAAGCCCTGGCAGCCCTGGTCTGATGGCAAACTGGCCCCCTGGTCCCGCCGGTC
AAGATGGTGCSCCGGACCCCCAGGCCACCTGGTGCCCGTGGTCAGGCTGGTGATGGGATTCCCTGGACCTA
AAGGTGCTGCTGGAGAGCCCGCAAGGCTGGAGAGCGAGGTGTTCCCGGACCCCCCTGGCGCTGTGGTCTGCTG
GCAAAGATGGAGAGGCTGGAGCTCAGGGACCCCCCTGGCCCTGCTGGTCCCGCTGGCGAGAGAGGTGAACAAGGCC
CTGCTGGCTCCCCCGGATTCCAGGGTCTCCCTGGTCTGCTGGTCTCCAGGTGAAGCAGGCAAACTGGTGAAC
AGGGTGTTTCTGGAGACCTTGGCGCCCCCTGGCCCCCTCTGGAGCAAGAGGCGAGAGAGGTTCCTGGCGAGCGTG
GTGTGCAAGGTCCCCCTGGTCTGCTGGTCCCCGAGGGGCCAACGGTGCTCCCGGCAACGATGGTGCTAAGGGTG
ATGCTGGTGCCCTGGAGCTCCCGGTAGCCAGGGCGCCCCCTGGCCTTCAGGGAATGCCTGGTGAACGTGGTGACG
CTGGTCTTCCAGGGCCTAAGGGTGACAGAGGTGATGCTGGTCCCCAAGGTGCTGATGGCTCTCCTGGCAAAGATG
GCGTCCGTGGTCTGACTGGCCCCATTGGTCTCCTGGCCCTGCTGGTGCCCTGGTGACAAGGGTGAAAGTGGTC
CCAGCGGCCCTGCTGGTCCCACTGGAGCTCGTGGTGCCCCCGGAGACCGTGGTGAGCCTGGTCCCCCGGCCCTG
CTGGCTTTGCTGGCCCCCTGGTGCTGACGGCCAACCTGGTGCTAAAGGCGAACCTGGTGATGCTGGTGCTAAAG
GCGATGCTGGTCCCCCTGGCCCTGCCGGACCCGCTGGACCCCTGGCCCCATTGGTAATGTTGGTGCTCCTGGAG
CCAAAGGTGCTCGCGGCAGCGCTGGTCCCCCTGGTGCTACTGGTTTCCCTGGTGCTGCTGGCCGAGTCGGTCCTC
CTGGCCCCCTCTGGAAATGCTGGACCCCCCTGGCCCTCCTGGTCTGCTGGCAAAGAAGGCGGCAAAGGTCCCCGTG
GTGAGACTGGCCCTGCTGGACGTCTGGTGAAGTTGGTCCCCCTGGTCCCCCTGGCCCTGCTGGCGAGAAAGGAT
CCCCCTGGTGCTGATGGTCTGCTGGTGCTCCTGGTACTCCCGGCCCTCAAGGTATTGCTGGACAGCGTGGTGTTG
TCGGCCTGCCTGGTGACAGAGGAGAGAGAGGCTTCCCTGGTCTTCCCTGGCCCCCTCTGGTGAACCTGGCAAACAAG
GTCCCTCTGGAGCAAGTGGTGAACGTGGTCCCCCTGGTCCCATGGGCCCCCTGGATTGGCTGGACCCCCCTGGTG
AATCTGGACGTGAGGGGGCTCCTGGTGCCGAAGGTCCCCCTGGACGAGACGGTTCTCCTGGCGCCAAGGGTGACC
GTGGTGAGACCGGCCCCGCTGGACCCCCCTGGTGCTCCTGGTGCTCCTGGTGCCCTGGCCCCGTGGCCCTGCTG
GCAAGAGTGGTGATCGTGGTGAGACTGGTCTGCTGGTCCCACCGGTCTGTGCGCCCTGTTGGCGCCCCGTGGCC
CCGCCGACCCCAAGGCCCCCCGTGGTGACAAGGGTGAGACAGGCGAACAGGGCGACAGAGGCATAAAGGGTCACC
GTGGCTTCTCTGGCCTCCAGGGTCCCCCTGGCCCTCCTGGCTCTCCTGGTGAACAAGGTCCCTCTGGAGCCTCTG
GTCCTGCTGGTCCCCGAGGTCCCCCTGGCTCTGCTGGTGCTCCTGGCAAAGATGGACTCAACGGTCTCCTGGCC

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FIGURE 4916B

CCATTGGGCCCCCTGGTCCTCGCGGTGCACTGGTGATGCTGGTCTGTGGTCCCCCGGCCCTCCTGGACCTC
CTGGTCCCCCTGGTCCTCCCAGCGCTGGTTTCGACTTCAGCTTCCTGCCCCAGCCACCTCAAGAGAAGGCTCAGC
ATGGTGGCCGCTACTACCGGGCTGATGATGCCAATGTGGTTTCGTGACCGTGACCTCGAGGTGGACACCACCTCA
AGAGCCTGAGCCAGCAGATCGAGAACATCCGGAGCCCAGAGGGCAGCCGCAAGAACCCCGCCCGCACCTGCCGTG
ACCTCAAGATGTGCCACTCTGACTGGAAGAGTGGAGAGTACTGGATTGACCCCAACCAAGGCTGCAACCTGGATG
CCATCAAAGTCTTCTGCAACATGGAGACTGGTGAGACCTGCGTGTACCCCACTCAGCCCAGTGTGGCCCAAGA
ACTGGTACATCAGCAAGAACCCCAAGGACAAGAGGCATGTCTGGTTCGGCGAGAGCATGACCGATGGATTCCAGT
TCGAGTATGGCGGCCAGGGCTCCGACCCTGCCGATGTGGCCATCCAGCTGACCTTCCTGCGCCTGATGTCCACCG
AGGCCTCCCAGAACATCACCTACCACTGCAAGAACAGCGTGGCCTACATGGACCAGCAGACTGGCAACCTCAAGA
AGGCCCTGCTCCTCCAGGGCTCCAACGAGATCGAGATCCGCGCCGAGGGCAACAGCCGCTTCACCTACAGCGTCA
CTGTGATGGCTGCACGAGTCACACCGGAGCCTGGGGCAAGACAGTGATTGAATACAAAACCACCAAGACCTCCC
GCCTGCCCATCATCGATGTGGCCCCCTTGGACGTTGGTGCCCCAGACCAGGAATTCGGCTTCGACGTTGGCCCTG
TCTGCTTCCTGTAAACTCCCTCCATCCCAACCTGGCTCCCTCCCACCCAACTTTCCCCCAACCCGGAAAC
AGACAAGCAACCCAACTGAACCCCTCAAAAGCCAAAAAATGGGAGACAATTCACATGGACTTTGGAAAATAT
TTTTTTCCTTTGCATTTCATCTCTCAAACCTTAGTTTTTATCTTTGACCAACCGAACATGACCAAAAACCAAAAGTG
CATTCAACCTTACCAAAAAAAAAAAAAAAAAAAGAATAAATAAACTTTTTAAAAAAGGAAGCTTGGTCCACT
TGCTTGAAGACCCATGCGGGGTAAGTCCCTTTCTGCCCCTTGGGCTTATGAAACCCCAATGCTGCCCTTTCTGC
TCCTTTCTCCACACCCCCCTTGGGGCCTCCCTCCACTCCTTCCCAAATCTGTCTCCCCAGAAGACACAGGAAC
AATGTATTGTCTGCCAGCAATCAAAGGCAATGCTCAAACACCCAAGTGGCCCCCACCCTCAGCCCGCTCCTGCC
CGCCAGCACCCCCAGGCCCTGGGGACCTGGGGTCTCAGACTGCCAAAGAAGCCTTGCCATCTGGCGCTCCCA
TGGCTCTTGCAACATCTCCCTTCGTTTTTGAGGGGGTCA TGCCGGGGGAGCCACCAGCCCCCTCACTGGGTTCGG
AGGAGAGTCAGGAAGGGCCACGACAAAGCAGAAACATCGGATTTGGGGAACGCGTGTCATCCCTTGTGCCGAG
GGCTGGGCGGGAGAGACTGTTCTGTTCCCTTGTGTAAGTGTGTTGCTGAAAGACTACCTCGTTCTTGTCTTGATGT
GTCACCGGGGCAACTGCCTGGGGGCGGGGATGGGGGAGGGTGGAAGCGGCTCCCCATTTATACCAAAGGTGCT
ACATCTATGTGATGGGTGGGGTGGGGAGGGAATCACTGGTGCTATAGAAATTGAGATGCCCCCCAGGCCAGCAA
ATGTTCCCTTTTGTTCAAAGTCTATTTTTATTCCTTGATATTTTTCTTTTTTTTTTTTTTTTTTGTGGATGGGG
ACTTGTGAATTTTCTAAAGGTGCTATTTAACATGGGAGGAGAGCGTGTGCGGCTCCAGCCCAGCCCGCTGCTCA
CTTTCCACCCTCTCTCCACCTGCCTCTGGCTTCTCAGGCCTCTGCTCTCCGACCTCTCTCCTCTGAAACCTTCCT
CCACAGCTGCAGCCCATCCTCCCGGCTCCCTCCTAGTCTGTCTGCTGCTCCTCTGTCCCCGGGTTTTCAGAGACAAC
TTCCCAAAGCACAAAGCAGTTTTTCCCCCTAGGGGTGGGAGGAAGCAAAAGACTCTGTACCTATTTGTATGTGT
ATAATAATTTGAGATGTTTTTAATTATTTTGATTGCTGGAATAAAGCATGTGGAAATGACCCAAACATAA

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FIGURE 4917

CCTGTTGCTGATGCTGCCGTGCGGTACTTGTCAATGGAGCTGGCACTGCGGCGCTCTCCCGTCCCGCGGTGGTTGC
TGCTGCTGCCGCTGCTGCTGGGCCTGAACGCAGGAGCTGTCAATTGACTGGCCACAGAGGAGGGCAAGGAAGTAT
GGGATTATGTGACGGTCCGCAAGGATGCCTACATGTTCTGGTGGCTCTATTATGCCACCAACTCCTGCAAGAACT
TCTCAGAACTGCCCTGGTCATGTGGCTTCAGGGCGGTCCAGGCGGTTCTAGCACTGGATTGGAACCTTTGAGG
AAATTGGGCCCCCTTGACAGTGATCTCAAACCACGGAAAACCACCTGGCTCCAGGCTGCCAGTCTCCTATTTGTGG
ATAATCCCGTGGGCACTGGGTTCAATTATGTGAATGGTAGTGGTGCCTATGCCAAGGACCTGGCTATGGTGGCTT
CAGACATGATGGTTCTCCTGAAGACCTTCTTCAGTTGCCACAAAGAATTCCAGACAGTTCATTCTACATTTTCT
CAGAGTCCTATGGAGGAAAAATGGCAGCTGGCATTGGTCTAGAGCTTTATAAGGCCATTACAGCGAGGGACCATCA
AGTGCAACTTTGCGGGGGTTGCCTTGGGTGATTCTGGATCTCCCCGTGGATTGCGGTGCTCTCTGGGGACCTT
ACCTGTACAGCATGTCTCTTCTCGAAGACAAAGGTCTGGCAGAGGTGTCTAAGGTTGCAGAGCAAGTACTGAATG
CCGTAAATAAGGGGCTCTACAGAGAGGCCACAGAGCTGTGGGGGAAAGCAGAAATGATCATTGAACAGAACACAG
ATGGGGTGAACTTCTATAACATCTTAACTAAAAGCACTCCACGTCTACAATGGAGTCGAGTCTAGAATTCACAC
AGAGCCACCTAGTTTGTCTTTGTGTCAGCGCCACGTGAGACACCTACAACGAGATGCCTTAAGCCAGCTCATGAATG
GCCCCATCAGAAAGAAGCTCAAAATTATTCTGAGGATCAATCCTGGGGAGGCCAGGCTACCAACGTCTTTGTGA
ACATGGAGGAGGACTTCATGAAGCCAGTCATTAGCATTGTGGACGAGTTGCTGGAGGCAGGGATCAACGTGACGG
TGTATAATGGACAGCTGGATCTCATCGTAGATACCATGGGTGAGGAGCCCTGGGTGCGGAAACTGAAGTGGCCAG
AACTGCCTAAATTCAGTCAGCTGAAGTGGAAGGCCCTGTACAGTGACCCTAAATCTTTGGAAACATCTGCTTTTG
TCAAGTCCTACAAGAACCCTTGCTTTCTACTGGATTCTGAAAGCTGGTCATATGGTTCCTTCTGACCAAGGGGACA
TGGCTCTGAAGATGATGAGACTGGTGAATCAGCAAGAATAGGATGGATGGGGCTGGAGATGAGCTGGTTTGGCCT
TGGGGCACAGAGCTGAGCTGAGGCCGCTGAAGCTGTAGGAAGCGCCATTCTTCCCTGTATCTAACTGGGGCTGTG
ATCAAGAAGGTTCTGACCAGCTTCTGCAGAGGATAAAATCATTGTCTCTGGAGGCAATTTGGAAATTATTTCTGC
TTCTTAAAAAACCTAAGATTTTTTAAAAAATTGATTTGTTTTGATCAAAATAAAGGATGATAATAGATATTATT
TTTTCTTATGACAGAAGCAAATGATGTGATTTATAGAAAACTGGGAAATACAGGTACCCAAAGAGTAAATCAAC
ATCTGTATACCCCTTCCCAGGGGTAAGCACTGTTACCAATTTAGCATATGTCCTTGCAGAATTTTTTTTTCTAT
ATATACATATATATTTTTTACCAAAATGAATCATTACTCTATGTTGTTTTACTATTGTTTGACATATCAGTATA
TCTGAAACACCTTTTCATGTCAATAAATGTTCTTCTCTAACATTAA

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FIGURE 4918

MELALRRSPVPRWLLLLPLLLGLNAGAVIDWPTEEGKEVWDYVTVRKDAYMFWWLYYATNSCKNFSELPLVMWLQ
GGPGGSSTGFGNFEEIGPLDSLKPRKTTWLQAASLLFVDNPFVGTGFSYVNGSGAYAKDLAMVASDMMVLLKTFF
SCHKEFQTVPFYIFSESYGGKMAAGIGLELYKAIQRGTIKCNFAGVALGDSWISPVDSVLSWGPYLYSMSLLEDK
GLAEVSKVAEQVLNAVNGLYREATLWGKAEMIEQNTDGVNFYNILTKSTPTSTMESLEFTQSHLVCLCQRH
VRHLQRDALSQLMNGPIRKKLKIIPEDQSWGGQATNVFVNMEEDFMKPVISIVDELLEAGINVTYNGQLDLIVD
TMGQEAWVRKLKWPELPKFSQLKWKALYSDPKSLETSAFVKS YKNLAFYWILKAGHMVPSDQGDMAKMMRLVTQ
QE

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FIGURE 4919

CCGGACTGCGGAAGGATGGAGCTGGCCGCCGGAAGCTTCTCGGAGGAGCAGTTCTGGGAGGCCTGCGCCGAGCTC
CAGCAGCCCCGCTCTGGCCGGGGCCGACTGGCAGCTCCTAGTGGAGACCTCGGGCATCAGCATCTACCGGCTGCTG
GACAAGAAGACTGGACTTCATGAGTATAAAGTCTTTGGTGTTCTGGAGGACTGCTCACCAACTCTACTGGCAGAC
ATCTATATGGACTCAGATTACAGAAAACAATGGGACCAGTATGTTAAAGAACTCTATGAACAAGAATGCAACGGA
GAGACTGTGGTCTACTGGGAAGTGAAGTACCCTTTTCCCATGTCCAACAGAGACTATGTCTACCTTCGGCAGCGG
CGAGACCTGGACATGGAAGGGAGGAAGATCCATGTGATCCTGGCCCGGAGCACCTCCATGCCTCAGCTTGCGGAG
AGGTCTGGGGTGATCCGGGTGAAGCAATACAAGCAGAGCCTGGCGATTGAGAGTGACGGCAAGAAGGGGAGCAAA
GTTTTCATGTATTACTTCGATAACCCGGGTGGCCAAATTCCGTCCTGGCTCATTAACTGGGCCGCCAAGAATGGA
GTTCCCTAACCTTCTTGAAAGACATGGCAAGAGCCTGTGAGAACTACCTCAAGAAAACCTAAGAAAGAGAACTGGGA
ACATTGCATCCATGGGTTGATGTCTCTGGAAGTGCAACCACCCAATGTCTCTGGAAGTGCCACCTGGAAGTGCCA
CCTGGAAGTGCTCTCTGGAAGAGCACCCACCACTGTTGAGCCTTCCCCTGCTGTTTCTGTCTTCAGAGGCCTACAC
ACTACCACATCCTTTCTAAGCATGTTTGCCTGACATCCAGCTCACTCGTCTGCTTCCTTTCTCGCTCCCCCATC
CTGGGCTGGGCTGCCTTCTTCTACAGTTCAATATGGGGCAGACTAGGGAAACCTTTGCTTGCTTACTATTAGGAG
GGGAAGTCTTCAGTAGGGAACACGATCATTCCATTGTGCAATTTTACGGGGATGGGTGGGCGGAGGGACACAACA
AAATTTAAGAATGACTATTTGGGCGGGCTGGCTCTTTTGAGCCTTGATTTCTTCCAGCTTGGGAGGGGCTGCT
GGAAGTGGCATTTCGTTTCAGAGCTGACTTTTCAGTGCACCCAACTGGATGACGTGCCAATGTCCATTTCCTTAT
GCTTTGTGGAGCTGATTAGGCTGGGATTTGAGGTGATAATCCAGTAAGTCTTTCCTCGTTCCTACTTGTGGAGGA
TCAGTAGCTGTTATGATGCCAGACCATTGGGAGAAGTATCAGAGGCCTGACCGGACACATAATACGACAACCACA
TTTTTCCTCATCATCCATGAGGAAATGGATGATTTCTCTTTTCCATATGTCACTGGGGGAAAGGCTGCCTGTACC
TCTCAAGCTTTGCATTTTACTGGAACTGAGGCGTCAAGATGGCTGTGGCAGCTAGCAAAAAGCAAAGATGCTTTG
TGCATAGCCTTGTGAAAAAGTATCTTTCTATGCAATAAGATGAATTTTCTCCAGAATATTTAGAAAATGTAGAA
GGGATAACAGTTCACAGCCAGGTAAAATTTAACTGGTGGCTTAATGACTCTGCACCTTTTTTCTCAGGAATTCTGC
CTAAGTTGTCTGCCTTTTCTACCACCAAAAAGACTTTTAGTTTTCTATGCTTTTCTCCTGAATTTTGGTAGGGTAA
GTATTTCTATGTCAAAGGCACAGCCTTGATGATCTCAGGGAAAAATTTAATCACTGTGTATAATGATACTGAAC
CTTGATTAATAACAGAAATTCAGGATGTAAAGCCACAGAATGGGATTTATTAATGTGGGATACCTCAGACTGTTT,
GTTTTCTTTCTGGGAAGAAAAGTGTGTTCTATAATGAATAAATATAGAGTGGTTTTT

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FIGURE 4920

MELAAGSFSEEQFWEACAELOQPALAGADWQLLVETSGISYRLLDKKTGLHEYKVFGVLEDCSPTLLADIYMDS
DYRKQWDQYVKELYEQECNGETVVYWEVKYPFPMSNRDYVYLRQRRDLMEGRKIHVILARSTSMPLGERSGVI
RVKQYKQSLAIESDGKKGSKVFMYYFDNPGGQIPSWLINWAAKNGVPNFLKDMARACQNYLKKT

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FIGURE 4921A

CCGCCCCCGACCCGAGCTCTTTTCGTCTGCCTGCCAGTTTCCTGCGTCCCCGGAGAGGATCCTGCTGAGCCCAGCC
TCCCCCTCCCCCTTCTCCTCCTCTCCCTTGGAGAGCCCCGGGCAGCCACTGCCCCGAGCCCCAGTGACAGGAGGA
GACCATAACCCCCGACAGCGCCATGCCCCAGATTCTGCCAATTCGTTTTTCAGGAGCATCTCCAGCTCCAGAACCT
GGGTATCAACCCAGCAAACATTGGCTTCAGTACCCTGACTATGGAGTCTGACAAATTCATCTGCATTAGAGAAAA
AGTAGGAGAGCAGGCCCAGGTGGTAATCATTGATATGAATGACCCAAGTAATCCAATTCGAAGACCAATTTTCAGC
AGACAGCGCCATCATGAATCCAGCTAGCAAAGTAATTGCACTGAAAGCTGGGAAAACTCTTCAGATTTTTTAACAT
TGAAATGAAAAGTAAAATGAAGGCTCATACCATGACTGATGATGTCACCTTTTGGAATGGATCTCTTTGAATAC
GGTTGCTCTTGTTACGGATAATGCAGTTTATCACTGGAGTATGGAAGGAGAGTCTCAGCCAGTGAAAATGTTTGA
TCGCCATTCTAGCCTTGCCAGGGTGCCAGATTATCAATTACCGTACAGATGCAAAACAAAAGTGGTTACTTCTGAC
TGGTATATCTGCACAGCAAAATCGTGTGGTGGGAGCTATGCAGCTATATTCTGTAGATAGGAAAGTGTCTCAGCC
CATTGAAGGACATGCAGCTAGCTTTGCACAGTTTAAAGATGGAAGGAAATGCAGAAGAATCAACGTTATTTTGTTT
TGCAGTTCCGGGCCAAGCTGGAGGGAAGTTACATATTATTGAAGTTGGCACACCCTACAGGGAACCAGCCCTT
TCCAAAGAAGGCAGTGGATGTCTTCTTCCCTCCAGAAGCACAAAATGATTTTCTGTGCAATGCAGATCAGTGA
AAAGCATGATGTGGTGTCTTGATAACCAAGTATGGTTATATCCACCTCTATGATCTTGAGACTGGTACCTGCAT
CTACATGAATAGAATCAGTGGAGAAACAATTTTTGTTACTGCACCTCATGAAGCCACAGCTGGAATAATTGGAGT
AAACAGAAAGGGACAAGTTCTGTCACTGTGTGTGGAAGAAGAAAACATAATTCCTTACATCACCATGTTCTACA
AAATCCTGATTTGGCTCTGAGAATGGCTGTACGTAATAACTTAGCCGGTGTGTAAGAAGTCTTTGCCCGGAAATT
TAATGCTCTTTTGGCCAGGGAAATTACTCGGAGGCAGCAAAGGTGGCTGCTAATGCACCAAAGGGAATTCTTCG
TACTCCAGACACTATCCGTCGGTTCAGAGTGTCCAGCCCAGCCAGGTCAAACCTTCTCCTCTACTTCAGTACTT
TGGTATCCTTTTGGAACAGGGACAGCTCAACAAATACGAATCCTTAGAGCTTTGTAGGCCTGTACTTCAGCAAGG
GCGAAACAGCTTTTGAGAAATGGTTAAAAGAAGATAAGCTGGAATGTTCTGAAGAAGTGGGTGATCTTGTGAA
ATCTGTGGACCCTACATTGGCACTTAGTGTGTACCTAAGGGCTAACGTCCCAAATAAAGTCATTTCAGTGTCTTGC
AGAAACAGGTCAAGTCCAAAAGATTGTTTTATATGCTAAAAAAGTTGGATACACTCCAGATTGGATATTTCTGCT
GAGAAATGTAATGCGAATCAGTCCAGATCAGGGACAGCAGTTTGCCCAAATGTTAGTTCAAGATGAAGAGCCTCT
TGCTGACATCACACAGATTGTAGATGTCTTTATGGAATACAATCTAATTCAGCAGTGTACTGCATTCTTGCTTGA
TGCTCTGAAGAATAATCGCCCATCTGAAGGTCCTTTACAGACGCGGTACTTTGAGATGAACCTTATGCATGCGCC
TCAAGTTGCAGATGCTATTCTAGGCAATCAGATGTTACACATTATGACCGGGCTCATATTGCTCAACTGTGTGA
AAAGGCTGGCCTACTGCAGCGTGCAATTAGAACATTTCACTGATTTATATGATATAAAACGTGCAGTGGTTCACAC
CCATCTTCTTAACCTGAGTGGTTAGTCAACTACTTTGGTTTCCTTATCAGTAGAAGACTCCCTAGAATGTCTCAG
AGCCATGCTGTCTGCCAACATCCGTCGAAATCTGCAGATTGTGTTCAGGTGGCTTCTAAATATCATGAACAACT
GTCAACTCAGTCTCTGATTGAACTTTTTGAATCTTTCAAGAGTTTTGAAGGTCTCTTTTATTTTCTGGGATCCAT
TGTTAACTTTAGCCAGGACCCAGATGTGCACTTTAAATATATTACAGGCAGCTTGCAAGACTGGGCAAAATCAAAGA
AGTAGAAAGAATCTGTAGAGAAAGCAACTGCTACGATCCTGAGCGAGTCAAGAATTTTCTTAAGGAAGCAAACT
AACAGATCAGCTACCACTTATCATTGTGTGTGATCGATTGACTTTGTCCATGATTTGGTGCTCTATTTATATAG
AAATAATCTTCAAAAGTATATAGAGATATATGTACAGAAGGTGAATCCAAGTCGACTTCCTGTAGTTATTGGAGG
ATTACTTGATGTTGACTGTTCTGAAGATGTCATAAAAACTTGATTCTTGTGTGAAGAGGTCAATTCTCTACTGA
TGAGCTTGTTGCTGAGGTTGAAAAAGAAACAGATTGAAACTGCTTCTGCCTTGCTAGAGGCCAGAATTCATGA
GGGCTGTGAGGAGCCTGCTACTCACAATGCCTTAGCCAAAATCTACATAGACAGTAATAACAACCCGGAGAGATT
TCTTCGTGAAAATCCCTACTATGACAGTCGCGTTGTTGGAAAGTATTGTGAGAAGAGAGATCCACATCTGGCCTG
TGTTGCTTATGAACGTGGCCAATGTGATCTGGAACCTATTAATGTTTGCAATGAGAATTCCTCTTCAAAAGTCT
TTCTCGCTACCTGGTACGTCGAAAGGATCCAGAATTGTGGGGCAGCGTGCTGCTGGAAGCAATCCTTACAGGAG
ACCCCTAATTGACCAGGTTGTACAAACAGCTTTGTCTGAGACTCAGGACCCTGAAGAAGTGTGAGTAAGTGTAA
GGCTTTCATGACTGCAGACCTTCCTAATGAACCTCATTGAACCTGCTGGAGAAAATTGTCCTTGATAACTCTGTATT
CAGTGAACACAGGAATCTGCAAAACCTCCTTATCCTCACTGCAATTAAGGCTGACCGTACACGTGTTATGGAGTA
TATTAACCGCCTGGATAATTATGATGCCCCAGATATTGCCAATATCGCCATCAGCAATGAGCTGTTTGAAGAAGC
ATTTGCCATTTTCCGGAAATTTGATGTCAATACTTCAGCAGTTCAGGTCTTAATTGAGCATATTGGAACTTGGA
TCGGGCATATGAGTTTGCTGAACGTTGCAATGAACCTGCGGTCTGGAGTCAACTTGCAAAAGCCAGTTGCAGAA
AGGAATGGTGAAAGAAGCCATTGATTCTTATATCAAAGCAGATGATCCTTCCTCCTACATGGAAGTTGTTTCAGGC

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FIGURE 4921B

TGCCAATACTAGTGGAAACTGGGAAGAACTGGTGAAGTACTTGCAGATGGCCCGTAAGAAGGCTCGAGAGTCCTA
TGTGGAGACAGAACTGATATTCGCACTGGCTAAAACAAACCGCCTTGCAGAGTTAGAAGAATTTATCAATGGACC
AAATAATGCTCATATCCAACAAGTTGGTGACCGTTGTTATGATGAAAAAATGTATGATGCTGCTAAGTTGTTGTA
CAATAATGTTTCCAATTTTGGACGTTTGGCATCTACCCTGGTTCACCTGGGTGAATATCAGGCAGCTGTTGATGG
GGCTAGGAAAGCTAACAGTACTCGAACATGGAAAGAGGTCTGCTTCGCCTGTGTAGATGGGAAAGAATTCCGTCT
TGCTCAGATGTGTGGACTTCATATTGTTGTACATGCAGATGAATTAGAAGAACTTATCAACTACTATCAGGATCG
TGGCTATTTTGAAGAGCTGATCACCATGTTGGAAGCAGCACTGGGACTTGAGCGAGCTCACATGGGAATGTTTAC
TGAATTAGCTATTCTATACTCTAAATTTAAGCCTCAGAAAATGAGGGAGCACCTGGAGCTGTTCTGGTCTAGAGT
GAATATTTCCCAAGGTGCTAAGAGCTGCAGAACAAGCTCATCTTTGGGCAGAACTGGTGTTTTTGTATGACAAGTA
TGAAGAATATGATAATGCCATAATTACCATGATGAATCATCCAAGTATGCCTGGAAAGAAGGGCAATTCAAAGA
TATCATTACCAAGGTTGCCAATGTGGAACATACTACAGAGCAATACAGTTCTACTTAGAATTCAGCCTCTGTT
GTTAAATGATTTGCTGATGGTGTCTCTCCACGGTTGGATCACACTCGTGCAGTCAATTATTTAGCAAGGTTAA
ACAGCTACCACTGGTGAAACCGTATTTGCGTTCAGTTTCAAGAACATAACAACAATCTGTGAATGAATCATTGAA
CAATCTTTTTTATTACAGAAGAAGATTATCAGGCTCTGCGAACATCAATAGATGCTTATGACAACTTTGACAATAT
CTCGCTTGCTCAGCGTTTGGAAAAACATGAACCTATTGAGTTTCAAGGAGAATTGCTGCTTATCTCTTCAAAGGCAA
CAATCGCTGGAAACAGAGTGTAGAGCTGTGCAAGAAAGACAGCCTTTACAAGGATGCAATGCAGTATGCTTCTGA
ATCTAAAGATACTGAATTGGCTGAAGAACTCCTGCAGTGGTTTTTGCAGGAAGAAAAAGAGAGTGCTTTGGAGC
TTGTCTGTTTACCTGTTACGATCTTTTAAGGCCAGATGTCGTCTTAGAAACTGCATGGAGGCACAATATCATGGA
TTTTGCCATGCCCTATTTATCCAGGTCATGAAGGAGTACTTGACAAAGGTGGATAAAATTAGATGCTTCAGAATC
ACTGAGAAAAGAAGAACAAGCTACAGAGACACAACCCATTGTTTATGGTCAGCCCCAGTTGATGCTGACAGC
AGGACCCAGTGTTGCCGTCCCTCCCCAGGCACCTTTTGTTATGGTTATACCGCACCAACCGTATGGACAGCCACA
GCCTGGCTTTGGGTACAGCATGTGAGATGAAGCGCTGATCCTGTAGTCACCTATTTTCGTACTGAAACATCGTCT
TTACCCACTTCTCAGTTTATAATGGGGGAAAACAGGCAACGTGTTCTTGTAACCTTTATTTTCATGAAGGACTTCT
TTTTGTTTCTAACTATAAACTTGGATCACCTATGTTAAACCTTATTTTACATTCCACATCATTTTAGAATTTAT
TTTCGAAGGGGAATAGTTTCAATGTTTTATTCACTTGGGCTTTTTTTCTTCCCCCTCTTTCTTTAAAGAACTGCT
CAATATTCAATCTGTTGTGAAGAACCTGATTTGCACTCTGTAGTGTTTTAAAGAAAACAAAGAACTCTAATATTGA
ATCTCTTAAATTTAGTGATGTAAACAGCTTACAAATACGTATTGTCTAAATGCATTTAAATCTGTTTTATTCAA
AGAAAAGCTAAAGCAAAAACACTGGCATATGACCATGCAAGACTGTCTAGTGCCAACAAAGACAACACTAATCAGC
ACATCGTACACTGGATTGCAGTGCTTCCCAGATTATTGAAAAATGTTACAGACAACCTTGCTGATTTTTTAAATGA
GCGTAAAAGGCCCTCTAACCTATGCAGGTTTCCCCATTATGCATATAGAAAATGCTAGTATGTTTTGCTCACTTC
ATATGTAACAGGTGCCCTTATGTTGTGCTGTATCCTGTGCTTTTTCTGTGGGACCATTCCATTCAAGGAGCAAAGA
GCACCATGATTCCAATCTTGTGTGTGTTTACTAACCTTCCCTGAGGCTTGTGTATGTTGGATATTGTGGTGT
TAGATCACTGAGTGATCAGAAGAGAGAAAATTCAAACAAAATATTGCTGTTCTTCAGTTTGTGTTGTGGAATTTGA
AATTACTCAAATTTAAAAATAAATTACTGGACTGTGG

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FIGURE 4922

MAQILPIRFQEHLLQLQNLGINPANIGFSTLTMESDKFICIREKVGEQAQVVIIDMNDPSNPIRRPI SADS AIMNP
ASKVIALKAGKTLQIFNIEMKSKMKAHTMTDDVTFWKWISLNTVALVTDNAVYHWSMEGESQPVKMFDRHSSLAG
CQIINYRTDAKQKWLTLTGISAQQNRVVGAMQLYSVDRKVSQPIEGHAASFAQFKMEGNAEESTLFCFAVRGQAG
GKLHIIIEVGTPPTGNQPFPPKKAVDVFFPPEAQNDFPVAMQISEKHVDVFLITKYGYIHLYDLETGTCTIYMNRISG
ETIFVTAPHEATAGIIGVNRKGQVLSVCVEEENIIPYITNVLQNPDLALRMAVRNNLAGAEELFARKFNALFAQG
NYSEAAKVAANAPKGILRTPDTIRRFQSVPAQPGQTSPLLQYFGILLDQGLNKYESLELCRPVLQQGRKOLLEK
WLKEDKLECSEELGDLVKSVDPTLALSVYLRANVPNKVIQCFAGTGVQKIVLYAKKVGYPDWIFLLRNVMRIS
PDQGGQFAQMLVQDEEPLADITQIVDVMEYNLIQQCTAFLLDALKNNRPSEGPLQTRLLEMNLMHAPQVADAIL
GNQMFTHYDRAHIAQLCEKAGLLQRALEHFTDLYDIKRAVVHTHLLNPEWLVNYFGSLSVEDSLECLRAMLSANI
RONLQICVQVASKYHEQLSTQSLIELFESFKSFEGFLFYFLGSIVNFSQDPDVHFKYIQAACKTGQIKEVERICRE
SNCYDPERVKNFLKEAKLTDQLPLIIVCDRFDVHDLVLYLYRNNLQKYIEIYVQKVNPSRLPVVIGLLDVDCS
EDVIKNLILVVRGQFSTDELVAEVEKRNRLKLLLPWLEARIHEGCEEPATHNALAKIYIDSNNNPERFLRENPHY
DSRVVGKYCEKRDPHLACVAYERGQCDLELINVCNENSLFKSLSRYLVRKDPPELWGSVLLESNPYRRPLIDQVV
QTALSETQDPPEEVSVTVKAFMTADLPNELIELLEKIVLDNSVFSEHRNLQNLILITAIKADRTRVMEYINRLDNY
DAPDIANIAISNELFEEAFIFRKFVDNTSAVQVLIEHIGNLDRAVEFAERCNEPAVWSQLAKAQLQKGMVKEAI
DSYIKADDPSSYMEVVQAANTSGNWEELVKYLQMARKKARES YVETELIFALAKTNRLAELEEFINGPNNNAHIQQ
VGDRCYDEKMYDAKLLYNNVSNFGRLASTLVHLGEYQAAVDGARKANSTRTWKEVCFACVDGKEFRLAQMCGH
IVVHADELEELINYYQDRGYFEELITMLEAALGLERAHMGMTLAILYSKFKPQKMREHLELFWSRVNIPKVL R
AAEQAHLWAEVLVFLYDKYEEYDNAIITMMNHPTDAWKEGQFKDIITKVANVELYYRAIQFYLEFKPLLLNDLLMV
LSPRLDHTRAVNYFSKVKQLPLVKPYLRSVQNHNNKSVNESLNNLFITEEDYQALRTSIDAYDNFDNISLAQRLE
KHELIEFRRIAAYLFKGNRRWKQSVELCKKDSLYKDAMQYASESKDTELAEEELLQWFLQEEKRECFGACLFCTCYD
LLRPDVVLETAWRHNIMDFAMPYFIQVMKEYLTKVDKLDASESLRKEEQATETQPIVYGQPQLMLTAGPSVAVP
PQAPFGYGYTAPPYGPQPGFGYSM

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FIGURE 4923

TTTCCAGCCCCGGCCCCGGACCCCTGCAGCTGCAGAGATGTTGATGCCTAAGAAGAACTGGATTGCCATTTATGAA
CTCCTTTTTTAAGGAGGGAGTCATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAG
AATGTGCCCCAACCTTCATGTCATGAAGGCCATGCAGTCTCTCAAGTGCCGAGGCTACGTGAAAGAACAACCTTTGCC
TGGAGACATTTCTACTGGTACCTTACCAATGAGTGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCCGGAG
ATTGTGCCTGCCACCCTACGCCGTAGCCGTCCAGAGACTGGCAGGCCTCGGCCTAAAGGTCTGTATATGAGGAGT
GCTGTGCTACCTGGTGGCGACAAGAAAGCCGAGGCTGGGGCTGGGTGAGCAACCGAATTCTAGTTTAGAGGCGGA
TTTGGTTGTGGACGTGGTCAGCCACCTCAGTAAACTGGAGAGGATTCTTTTGCATTGAATAAATTTACAGCCAA
AAAA

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FIGURE 4924

AACCGGCGCCAGCC**ATG**GCCTCTGGGGCGGGCGGAAGCTGGGGTTCGCTCCCCACCGCAGAGCGCAGTCCCGACGC
CCTGGGTACCTTCTCTGCAGCCCCCTCTCGTGGGCCGTCCCACCTGCGCCCCCGCAGCCAGGCCGCGTGAAGGAAG
ACCTGCTGGAAGTATGATGCTGCAGAACGCGCAGATGCACCAGCTGCTGCTGAGTCGCCCTGGTGCTGGAGCGC
TGCAGCCCCGGCTGCTCGCCCTGCCCTCAGGTCTACCTGGAGGTTCCACAGGAAGAGCCTGAGGAGGAGGAGG
AGGAGATGGACGTGCGGGAGAAAAGGGCCTTTGGTGTTTTACCACCACTACTTGCCCTATTGATGCCCTCCCCGG
GTGCCCTGCTGCCCTGGCCAGCCCCCTTCTTCCCCACCCTGCTTGTACGCCCTACTTGACGGACGTGCCCAGGA
TTCAGCACTGTCTGCTCCAGGGAAGGGAGGTGAGAGCTGTGCCCCACCCCCACCCCCAGTGCCACAGGGA
CTGTGGGTGCTGATGTACCCCCGGCTTCAGACTACTATGATGCCAGAGCCTCCTAT**TGAGG**ACAGACCCCCGGCCC
TGGGAAGTGCACCAGCTTCTGCTCTGGATACAGCCCCGGAGCCGCTCCTGCACCTCTCTTGTCGACTCCCCGG
TGCCCATGGCTGGCAGTCTTCTCACTCCCTCAACCTCAGCCAGGCCCTCTTCTCCTGGGGAAATCAGTCCCTGC
CCCACGCCAATGAGTTCTTGACGGGCCGGATCTGTGCTGTTGTGTAAGAGCTCCCTAGAGCACCACCCAGGCC
TTGAAGCCACGTACAGCCGCTCTGCCCCACTGCTTCTGCTGAGCAGGGGGAGGCCTGGGAACAGAGCCCC
ACCCTCTCTCCCTCACCCCTCTCTCTGGGATGATGAGGTCTCCTTCCAGCCTAGTAATGGAGCAAGAGGGGAGGG
GGGGATTCTTCTGCTTTCCACAGCTTTGAAGGCCCTTTGAGGTGGCTGGAGGGGGCCAGAGTGGTCGGGGAGA
GACTTTGCTGGGCAGCGCCCTGAGCAGAGTCAGTTCGCTGGGCCCCCCACCCCTCATCCAGGAAGCAGCTCTG
TTGGCAGAAAGGAGAGGTACAGAGCTTTGTCTGCTGTGGCCAGGAGTGGCCTGAGGTCTCCTGGGGCCAGGTGGG
AACAGTGTGCTCTGCCCCCTGGGCCAGGGTGTGTTTCCCCACCCTCCCTCAGTAGCAATGAGCTACTCGGGC
CAGATGGGGGCTGTGTCATGGGCTGGGAGGCCCTGTGAAGGAGAGGGTGGGGAGGGAGGCATCTAGGGAGAGG
GGTCCCCCATGGTGGCTCCCCCTCCCTGGCCATTGTTATCCAGGAGGAGACACTGTGGGCACAGGGCTAAGTCCA
GGTGTGTTGATTGGGGCTAGAAAAGGCAATGTCCCAAGTCTCTGCTGCCTGTACAGTCTTCAGCCAGGGCTGG
ACCTCAACCCTGAGGAGTCACACTGAGTTCAGTGACCACCGTGGTGGTGGCCATGCCACTCATGGTTGCTATGG
CCGAAGGCTGGGGCAGCCTCCTCCAAGCCGCTCGCACCCCGTAGGTGCCCATCCGCTGCTGGCGCAAGTGCTG
GCCGAAGATGAAGCAGAGCAGGACAGATGTCACGAACAGGGACAGCAACACCGACACCACCGTGACTATGATGAC
CATCTGGCTGTCCGACACAGGCTCTGGGGAGGGAGGGGGCAAGGGTCTTAGACGTCTGTGATCCCAGTTACCAG
GGACCAAAAGGGAGTGGAAGTCCACCCCCAACCCAGACCCCCAGACCCCGCCGCCGCTCATGCATCCAGCAGTC
ACCCAGTTGCAGAGATGAGTGGTGAATGGTGTCTGCATTAAATTATTATCTGGAAAAAGGTGGCCAGGGCT
CAGGCTACCAGCTGGACTTCTGTGTGGCTGTGAGGGCAGATGTCCCCTTGTACAGCAGCCATGGGACCAGTGTGTA
GCTGCTGGACACCGTGGCCTGGAGGGTGGCATGGTCCCAGCCAAGCCCCCTTCTTGGGCAGAGCTGAGTGAAC TTC
ATGCCAGGCTCCCTGTGTGCCGGCCGTCCAGGGTCACCAAGCAGCAGAGCTCTGGGGACCTCAGTGGGGGCAGTC
AGGCCAAACTTCTCATTGTGGAGGGGAGCCAAGGCCAGGGAGAGCCGTCAAGGTCATGGGGCTTGATGGTGGCCG
AGGAACTAGTTGACCTCTCCCCGACCTCTGGAGCAGTTGAGGTCCAAGCTGGGGACTTGGAAGAAGTTCAGGGAA
GAGGGAGAGTAAGAGGGAAGCCTCAGGATGAAGGGTGGGCTCCTGGGTGTTTGCTTCCAAGTGGGACTCAAGAT
TTTTCTTCCCCGAGGGGCTGAAAGTGACTTATCACTCCCAACTCCATCCACGGATCCCCCTCACCATAGATCT
CCAACATCTTGGGGCTGAGTGTGTTGTGAAAGATGTTGCCACCGCGAGACATCAAGTCCAGCACAGCCAGGCAGG
AGAAGTTGCGGTGGCCATCCTCTCTGTGACCCGTGCTGTTGAATGTGGCTGTGGCCTCCTGCGGAGCAGGGGCTG
CCTTCCCGAAGGTCTCATAGTGCAGAGTCTCATTGCCACGGAACAGGAAGAGGGTGAAGGTGTCCAGGGGCTCCA
CGGTGGGCACCCTGCACTCAATGGTGAAGGACTTGCCACAGCCACCAAGTGGGTGTCAGTGTGAGGATGACCT
GCCTTGGAGGCTCTGCAGGGGACAAAGGAGGGAGGTCTGGTCAGGATGGGGGTGTCAGTCCCAGCAGCCTCCCCCT
GGCCAGGGCCATCTCCTGTACCATGGTGTTCACGGTTGGGGAGGAGGTGGCCTGGCCGGCTCCAGTGCAGAGA
GGAAGAGGGCAGCAGTTGAGGATGGAGGCTGGACTGTGTGGTAGTTTTACAGACATGATGGTTTCCGGTGACCAG
GTGTCTACAAGGACAAGGTTTCAAGAAATTGTACAGCCAAGTGGAAAGATATAAAAGTTTGGGTCTGTCTCCTCTCC
TTCAGAAATGAAATATAAATTTCAAACATTAAACAGTTGGGTGATCACGTTG

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FIGURE 4925

MASGAGGSWGRSPPQSAVPTPWVTFLOPLSWAVPPAPPQGRVKEDLLELMMLQNAQMHQLLSRLVAGALQPRP
ASPCPQVYLEVPQEEPEEEEEEMDVREKGPLVFHHHYLPYLMPSPGALLPWPAPFFFTPACQPYLQDVPRIQHCP
ASREREVRAVPPPPPPSATGTVGADVPPASDYDAESLL

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FIGURE 4926

GGCGGCCAAACCTCCGGAGGCCGGGGACGGAAGGCGGGCCCGCAGCAGATCCTGGATCCGGAATCTCCCGGGCAG
GAGCGGAATCTGTCCCGAACCGGGTCTGTGAGGAACTCGCGAACTTGGATTAGGAAATCCCGGAGCCCGGATCGA
CAAATCCCGGAACCCGGAATTAAGATCGCCAAGTCCCGGATCGCGGAGCACAGAGCACGGAGTGGACTCGACGCG
GAGCCCGGAGTCCGGATCGCGGCACCGCGGGACGGGACGGAGCGATGTCGGGCCGAGGCGCGGGCGGGTTCCCGC
TGCCCCCGCTAAGCCCTGGCGGGCGCGCCGTGGCTGCGGCCCTGGGAGCGCCGCCCTCCCCCGCGGGACCCGGCA
TGCTGCCCCGACCGGCGCTCCGGGGACCGGGTCCGGCAGGAGGCGTGGGGGGCCCCGGGGCGCCGCCCTTCCGCC
CCATGGGCCCCGCGGGCCCCGCGGCGCAGTACCAGCGACCTGGCATGTACCAGGGAACCGGATGCCCATGGCTG
GCTTGACAGGTGGGACCCCTGCTGGCTCCCCATTTGGTGCAGCAGCTCCGCTTCGACCTGGCATGCCACCCACCA
TGATGGATCCATTCCGAAAACGCCTGCTTGTGCCCCAGGCGCAGCCTCCCATGCCTGCCAGCGCCGGGGTTAA
AGAGGAGGAAGATGGCAGATAAGGTTCTACCTCAGCGAATCCGGGAGCTTGTTCCAGAGTCTCAGGCGTACATGG
ATCTCTTGGCTTTTGAGCGGAAGCTGGACCAGACCATTGCTCGCAAGCGGATGGAGATCCAGGAGGCCATCAAAA
AGCCTCTGACACAAAAGCGAAAGCTTCGGATCTACATTTCCAATACGTTTCAGTCCCAGCAAGGCGGAAGGCGATA
GTGCAGGAAGTGCAGGGACCCCTGGGGGAACCCAGCAGGGGACAAGGTGGCTTCCTGGGAAGTCCGAGTGGAAAG
GAAAAGTGTGGATGATCCTAGCAAACAGAAGAGGAAGTTTTCTTCATTCTTTAAGAGCCTCGTCATTGAGCTGG
ACAAGGAGCTGTACGGGCCTGACAATCACCTGGTGGAGTGGCACCGGATGCCACCACCCAGGAGACAGATGGCT
TCCAAGTAAAACGGCCTGGAGACCTCAACGTCAAGTGCACCCTCCTGCTCATGCTGGATCATCAGCCTCCCCAGT
ACAAATTGGACCCCGATTGGCAAGGCTGCTGGGAGTGCACACGCAGACGAGGGCGCCCATCATGCAGGCCCTGT
GGCTTTACATCAAGCACAAACCAGCTGCAGGATGGGCACGAGCGGGAGTACATCAACTGCAACCGTTACTTCCGCC
AGATCTTCAGTTGTGGCCGACTCCGTTTCTCCGAGATTCCCATGAAGCTGGCAGGGTTGCTGCAGCATCCAGACC
CCATTGTCATCAACCATGTCTATTAGTGTGACCCCTAACGACCAGAAGAAGACAGCCTGTTACGACATCGATGTGG
AGGTGGACGACCCACTGAAGGCCCAAATGAGCAATTTTCTGGCCTCTACCACCAATCAGCAGGAGATCGCCTCCC
TTGATGTCAAGATCCATGAGACCATTGAGTCCATCAACCAGCTGAAGACCCAGAGAGATTTTCATGCTCAGTTTTA
GCACCGACCCCCAGGACTTCATCCAGGAATGGCTCCGTTCCAGCGCCGAGACCTCAAGATCATCACTGATGTGA
TTGGAAATCCTGAGGAGGAGAGACGAGCTGCTTTCTACCACCAGCCCTGGGCCAGGAAGCAGTAGGCAGGCACA
TCTTTGCCAAGGTGCAGCAGCGAAGGCAGGAAGTGGAAACAGGTGCTGGGAATTCGCCTGACCTAACTGCTCAGGG
ATCTTTCTTCCCAGCCCTGGAGCCTGGAGGGAGACCACCCCTCTGGGTCTTGTGCTGGGGCCGAGACACGTAGGCT
GGGGTGAGGAGTGTCTGCTGTACCCCTCTACTCTCCAGCTTTAGTCTTATAAATGTAGTGATAGGATTCTTGT
GCTTGGTCCCCAAAGCCTTATACTTTTTGCAATTGGCTTTAATTGGGTTCAGCAGATGCCTCCTCTGCCCCCTGC
AGGCAGGCCCAAGTAGGACTGCTGGAGGCTGTGCTTTGACATTGTAAGACATTTCCGAACCAAGGCTGCTGGGT
TTGCATGTTTACAGACTCCCCCTGGGGCGAGGGTCAGAGCTGGCTCTGGGGAGCTGGGCTAGGAAGAGGAGGTGC
AGCCCAGACTCTTCTAGCCTTTCTAAACCAAGTTCTTTGCCATTCTACAAGCCAGCCTTGCTGCTGGTTTTT
TTCCTTTCTTTGGGIATTTGCACTATTTTGGGAGCAAGTTTCTATGTGGGAGCCACTTTTTTTGTACAGGGGT
AAGTTGGGGGTTTTTCAAGGAGCCTGTTAGGTGCCTCCTTCTTTCTTCTTCAATCTATGCAAGCGGCTCTGGCC
GCCATCATCTCCTGGGATGCCAGAGGGCTGCCTCTCCAGCGGCTTGGGCCGGGAGGGGACACTCCAGTTCTCTA
GCATGGCCTGAGGTATGGGGTATGTGCATGTGGAGGCCAGGGTAAGGTGAATGGGGAGGCTGGGAGGACTGGTGT
TGCCCTTTGGAGCTTGGTGAGGAGGGTGGGCCTAGGGCTTGGCGAGTGCCACATCTGGCAGGTTTGGAAATTTCC
AAATAAATCCTTTTGTCT

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FIGURE 4927

ATGGCGCTTGACGGACCAGAGCAGATGGAGCTGGAGGAGGGGAAGGCAGGCAGCGGACTCCGCCAATATTATCTG
TCCAAGATTGAAGAACTCCAGCTGATTGTGAATGATAAGAGCCAAAACCTCCGGAGGCTGCAGGCACAGAGGAAC
GAACTAAATGCTAAAGTTCGCCTATTGCGGGAGGAGCTACAGCTGCTGCAGGAGCAGGGCTCCTATGTGGGGGAA
GTAGTCCGGGCCATGGATAAGAAGAAAGTGTGGTCAAGGTACATCCTGAAGGTAAATTTGTTGTAGACGTGGAC
AAAAACATTGACATCAATGATGTGACACCCAATTGCCGGGTGGCTCTAAGGAATGACAGCTACACTCTGCACAAG
ATCCTGCCCCAACAAGGTAGACCCATTAGTGTCACTGATGATGGTGGAGAAAGTACCAGATTCAACTTATGAGATG
ATTGGTGGACTGGACAAACAGATCAAGGAGATCAAAGAAGTGATCGAGCTGCCTGTTAAGCATCCTGAGCTCTTC
GAAGCACTGGGCATTGCTCAGCCCAAGGGAGTGCTGCTGTATGGACCTCCAGGCACTGGGAAGACACTGTTGGCC
CGGGCTGTGGCTCATCATACGGACTGTACCTTTATTCGTGTCTCTGGCTCTGAACTGGTACAGAAATTCATAGGG
GAAGGGGCAAGAAATGGTGAGGGAGCTGTTTGTGTCATGGCACGGGAACATGCTCCATCTATCATCTTCATGGACGAA
ATCGACTCCATCGGCTCCTCGCGGCTGGAGGGGGTCTGGAGGGGACAGTGAAGTGCAGCGCACGATGCTGGAG
TTGCTCAACCAGCTCGACGGCTTTGAGGCCACCAAGAACATCAAGGTTATCATGGCTACTAATAGGATTGATATC
CTGGACTCGGCACTGCTTCGCCCAGGGCGCATTGACAGAAAAATTGAATTCACCCCCCAATGAGGAGGCCCGG
CTGGACATTTTGAAGATTCATTCTCGGAAGATGAACCTGACCCGGGGGATCAACCTGAGAAAAATTGCTGAGCTC
ATGCCAGGAGCATCAGGGGCTGAAGTGAAGGGCGTGTGCACAGAAGCTGGCATGTATGCCCTGCGAGAACGGCGA
GTCCATGTCACTCAGGAGGACTTTGAGATGGCAGTAGCCAAGGTCATGCAGAAGGACAGTGAGAAAAACATGTCC
ATCAAGAAATTATGGAAGTGAAGTGGACAGCCTTTGTGTGTATCTCTCCAATAAAGCTCTGTGGGCCAAGTC

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FIGURE 4928

MALDGPEQMELEEGKAGSGLRQYYLSKIEELQLIVNDKSONLRRLOAQRNELNAKVRLIREELQLLOEQGSYVGE
VVRAMDKKKVLVKVHPEGKFVVDVDKNIDINDVTPNCRVALRNDSTLHKILPNKVDPVLSLMMVEKVPDSTYEM
IGGLDKQIKEIKEVIELPVKHPELFEALGIAQPKGVLVLYGPPGTGKTLLARAVAHHTDCTFIRVSGSELVQKFIG
EGARMVRELFVMAREHAPSIIFMDEIDSIGSSRLEGGSGGDSEVQRTMLELLNQLDGFATKNIKVIMATNRIDI
LDSALLRPGRIDRKIEFPPPNEEARLDILKIHSRKMNLTRGINLRKIAELMPGASGAEVKGVCTEAGMYALRERR
VHVTQEDFEMAVAKVMQKDSEKNMSIKKLWK

ATACTTGTGCGGTTCCAAGTGTGGAGAAAGCGGCTCTGGGTCTAGATTGAGGGATACTCCCCCTTTCCACC**ATGG**
GCAAGAAGGGCAAAGTTGGCAAGAGCCGACGAGACAAGTTTTATCACTTGGCGAAGGAGACGGGTTACCGTTCCCG
GATCTGCTTTCAAGCTGATCCAGCTCAATCGCCGCTTTTCAGTTTCTGCAGAAAGCCCGAGCCTTGCTGGACCTGT
GTGCTGCGCCAGGGGGATGGCTGCAGGTAGCTGCCAAGTTTATGCCTGTATCCAGCCTTATTGTGGGAGTGGACC
TGGTTCCAATCAAGCCTCTCCCCAATGTGGTGACTCTCCAGGAGGACATCACAAACAGAACGTTGTAGGCAGGCCCC
TGAGGAAGGAGCTGAAGACCTGGAAGGTTGATGTTGTGCTCAATGATGGGGCCCCCAACGTTGGGGCTAGCTGGG
TCCATGATGCTTACTCACAAGCCCATTTGACACTGATGGCTCTACGTTTGGCTTGTGACTTTTTTGGCCCGTGGTG
GCAGCTTCATCACAAAGGTTTTCCGTTCTCGTGACTATCAGCCTCTGCTATGGATCTTTCAGCAGCTGTTCCGCC
GTGTCCAGGCCACCAAGCCCCAAGCCTCTCGCCATGAATCTGCAGAGATCTTTGTAGTCTGCCAAGGATTCTCTGG
CCCCTGACAAGGTTGACAGTAAATTCTTTGACCCCCAAATTTGCCTTTAAGGAGGTTGAAGTTCAGGCTAAGACCG
TTACTGAATTGGTTACTAAGAAGAAGCCAAAGGCTGAAGGCTATGCTGAGGGTGACCTCACTCTCTATCACCGTA
CCTCAGTCACTGACTTCTCTCCGAGCTGCCAACCCCTGTTGACTTCTCTCCAAGGCCAGCGAAATCATGGTAGATG
ATGAAGAGTTGGCACAGCATCCAGCTACCACTGAGGACATACGGGTGTGCTGTGTCAGGACATCAGAGTGTGGGGC
GCAAGGAGCTCAGGTCGCTACTAACTGGAGAACAAAACCTTCGGCGATATGTGGCCAAGAAGCTGAAAGAACAAG
CAAAGGCACTGGACATCAGCCTCAGCTCTGGAGAGGAAGATGAAGGTGATGAGGAGGACTCAACAGCTGGAACCA
CAAAGCAGCCCTCTAAGGAGGAGGAGGAAGAGGAGGAGGAGGAACAACCTGAACCAGACCTTGGCAGAAATGAAGG
CCCAGGAGGTGGCGGAATTGAAGAGGAAGAAAAAGAGCTGTTGCGTGAGCAGAGAAAGCAGCGGGAGCGTGTGG
AGCTGAAGATGGATCTGCCTGGGGTTTTCCATTGCAGACGAGGGGGAGACTGGCATGTTCTCTTGTGCACCATCC
GGGGTCACCAAGTTATTAGAGGAAGTAACACAAGGGGATATGAGTGCAGCAGACACATTTCTGTCCGATCTGCCAA
GGGATGATATCTATGTGTCAGATGTTGAGGACGACGGTGATGACACATCTCTGGATAGTGACCTGGATCCAGAGG
AGCTGGCAGGAGTCAGGGGACATCAGGGTCTAAGGGACCAAAAGCGTATGCGACTTACTGAAGTGCAAGATGATA
AAGAGGAGGAGGAGGAGGAGAATCCACTGCTGGTACCCTGGAGGAAAAGGCAGTACTGCAGGAAGAACAAGCCA
ACCTGTGGTTCTCAAAGGGCAGCTTTGCTGGGATCGAGGACGATGCCGATGAGGCCCTGGAGATCAGTCAGGCCCC
AGCTGTTATTTGAGAACCGGCGGAAGGGACGGCAGCAGCAGCAGAAGCAGCAGCTGCCACAGACACCCCTTCTCT
GTTTGAAGACTGAGATAATGTCTCCCCTGTACCAAGATGAAGCCCCTAAGGGAACAGAGGCTTCTTCGGGGACAG
AAGCTGCCACTGGCCTTGAAGGGGAAGAAAAGGATGGCATCTCAGACAGTGATAGCAGTACTAGCAGTGAGGAAG
AAGAGAGCTGGGAACCCCTCCGTGGTAAGAAGCGAAGCCGTGGGCCTAAGTCAGATGATGACGGGTTTGAGATAG
TGCCTATTGAGGACCCAGCGAAACATCGGATACTGGACCCCCGAAGGCCTTGCTCTAGGTGCTGTTATTGCCTCTT
CCAAAAGGCCAAGAGAGACCTCATAGATAACTCCTTCAACCGGTACACATTTAATGAGGATGAGGGGGAGCTTC
CGGAGTGGTTTTGTGCAAGAGGAAAAGCAGCACCCGATACGACAGTTGCCTGTTGGTAAGAAGGAGGTGGAGCATT
ACCGGAAACGCTGGCGGGAAATCAATGCACGTCCCATCAAGAAGGTGGCTGAGGCTAAGGCTAGAAAGAAAAGGA
GGATGCTGAAGAGGCTGGAGCAGACCAGGAAGAAGGCAGAAGCCGTGGTGAACACAGTGACATCTCAGAACGAG
AGAAAGTGGCACAGCTGCGAAGTCTCTACAAGAAGGCTGGGCTTGGCAAGGAGAAACGCCATGTCACCTACGTTG
TAGCCAAAAAAGGTGTGGGCCGCAAAGTGCGCCGGCCAGCTGGAGTCAGAGGTCATTTCAAGGTGGTGGACTCAA
GGATGAAGAAGGACCAAAGAGCACAGCAACGTAAGGAACAAAAGAAAAAACACAAACGGAAG**TAAG**CAGAGCTGC
CAGGCTCCCAGGAGAGCATGGGGACTAGGAGGAAGGGTGTGGCATGGCTCAGTCTGGCCCCCTTGATTACCGGCC
TAGCCCCCTGCTCACATCACAGCTGTCTGAAGAACAGTGAGGTGGAGTGCCTAGAACTCCCGTGGTGGTCTGAGC
AGAGAGGAGGATGTCTCTGCTGCTGCTGAAGGTCTCCCATGAAAACACTGCTGAACTGTGTTGACACTCATGAC
CCTTTTTTTAAACCGTTAAAGGGAAGTTCGGTGTGGAGCGATACTCAATGTAGTCAGTCTACACCTGGACGTGT
GGGCCACTTAAGCCCTCCCCACCCCCATCCTATTCTTAAATAAAACCAGGATAATGGAAAAAAAAAAAAAAAAAAAA

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FIGURE 4930

MGKKGKVGKSRRDKFYHLAKETGYRSRSAFKLIQLNRRFQFLQKARALLDLCAAPGGWLQVAAKMPVSSSLIVGV
DLVPIKPLPNVVTLQEDITTERCRQALRKELKTWKVDVVLNDGAPNVGASWVHDAYSQAHLTLMALRLACDFLAR
GGSFITKVFRSRDYQPLLWIFQQLFRRVQATKQASRHESAEIFVVCQGFLAPDKVDSKFFDPKFAPKEVEVQAK
TVTELVTKKKPKAEGYAEGDLTLYHRTSVTDFLRAANPVDFLSKASEIMVDDEELAQHHPATTEDIRVCCQDIRVL
GRKELRSLNLNWRTKLRRYVAKKLKEQAKALDISLSSGEEDEGDEEDSTAGTTKQPSKEEEEEEEEEQLNQTLAEM
KAQEVAELEKRRKKKKLLREQRKQREVELKMDLPGVSIADGETGMFSLCTIRGHQLLEEVTOGDMSAADTFLSDL
PRDDIYVSDVEDDGGDDTSLDSLDPEELAGVRGHQGLRDQKRMRLTEVQDDKEEEEEENPLLVPLEEKAVLQEEQ
ANLWFSKGSFAGIEDDADEALEISQAQLLFENRRKGRQQQKQQLPQTTPPSCLKTEIMSPLYQDEAPKGTEASSG
TEAATGLEGEEKDGISDSDSSTSSEEEESWEPLRGKKRSRGPKSDDDGFEIVPIEDPAKHRILDPEGLALGAVIA
SSKKAARDLIDNSFNRYTFNEDEGELPEWVQEEKQHRIRQLPVGKKEVEHYRKRWREINARPIKKVAEAKARKK
RRMLKRLEQTRKKAEEAVVNTVDISEREKVAQLRSLYKKAGLGKEKRHVITYVVAKKGVGRKVRPAGVRGHFKVVD
SRMKKDQRAQQRKEQKKKKHKKR

FIGURE 4931

[illegible]

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FIGURE 4932

MAEVEDQAARDMKRLEEKDKERKNVKGIRDDIEEEDDQEAYFRYMAENPTAGVVQEEEEEDNLEYDS DGNPIAPTK
KIIDPLEPIDHSEIDYPPFEKNFYNEHEEITNLTPQQLIDLRHKLNLRVSGAAPPREPSSFAHFGFDEQLMHQIR
KSEYTQPTPIQCQGVFVALSGRDMIGIAKTGSGKTAAFIWPMLIHIMDQKELEPGDGP IAVIVCPTRELCQQIHA
ECKRF GKAYNLR SVAVYGGGSMWEQAKALQEGAEIVVCTPGRLIDHVKKKATNLQRVSYLVFDEADRMFDMGFY
QVRSIASHVRPDRQTLLFSATFRKKIEKLARDILIDPIRVVQGDIGEANEDVTQIVEILHSGPSKWNWLTRLVE
FTSSGSVLLFVTKKANAEELANNLKQEGHNLGLLHGDMDQSERNKVISDFKKK DIPVLVATDVAARGLDIPS IKT
VINYDVARDIDTHTHRIGRTGRAGEKGVAYTLLTPKDSNFAGDLVRNLEGANQHVSKELDLAMQNAWFRKSRFK
GGKGKKLNIGGGGLGYRERPGLGSENMDRGNNVMSNYEAYKPSTGAMGDRLTAMKAAFQSQYKSHFVAASLSNQ
KAGSSAAGASGWT SAGSLNSVPTNSAQQGHNSPDSPTSAAKGIPGFGNTGNI SGAPVTYPSAGAQQVNNTASGN
NSREGTGGSNGKRERYTENRGSSPSQSRRDWQSA

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FIGURE 4933

CCGCCGCCCCGGGCCCCCGGCATGCAGCCCCGGCTGCGGAGGTGACACTCACGGACCTTAGCCACCGCCGCGCCCA
TCGCCACCAATGGACGAACAGGAGGCATTGAACTCAATCATGAACGATCTGGTGGCCCTCCAGATGAACCGACGTC
ACCGGATGCCTGGATATGAGACCATGAAGAACAAGACACAGGTCACCTCAAATAGGCAGAGTGACGTCAGAATCA
AGTTTCGAGCACAACGGGGAGAGGCGAATTATAGCGTTTCAGCCGGCCTGTGAAATATGAAGATGTGGAGCACAAGG
TGACAACAGTATTTGGACAACCTCTTGATCTACATTACATGAACAATGAGCTCTCCATCCTGCTGAAAAACCAAG
ATGATCTTGATAAAGCAATTGACATTTTAGATAGAAGCTCAAGCATGAAAAGCCTTAGGATATTGCTGTTGTCCC
AGGACAGAAACCATAACAGTTCCTCTCCCCACTCTGAGGTGTCCAGACAGGTGCGGATCAAGGCTTCCAGTCCG
CAGGGGATATAAATACTATCTACCAGCCCCCGAGCCCAGAAGCAGGCACCTCTCTGTCAGCTCCCAGAACCCTG
GCCGAAGCTCACCTCCCCCTGGCTATGTTCTGAGCGGCAGCAGCACATTGCCCGGCAGGGGTCTACACCAGCA
TCAACAGTGAGGGGGAGTTTCATCCCAGAGACCAGCGAGCAGTGATGCTGGATCCCCTGAGCAGTGCGAAAAATT
CCTTGCTGGAAGCTGCCAATCCTTGAGCAGGTTCAGCAGACAGCCCATCCTTCCGGAAATCACGAATGTCCCGTG
CCCAGAGCTTCCCTGACAACAGACAGGAATACTCAGATCGGGAACTCAGCTTTATGACAAAGGGGTCAAAGGTG
GAACCTACCCCCGGCGCTACCACGTGTCTGTGCACCACAAGGACTACAGTGATGGCAGAAGAACATTTCCCCGAA
TACGGCGTCATCAAGGCAACTTGTTACCCCTGGTGCCCTCCAGCCGCTCCCTGAGCACAATGGCGAGAACATGG
GTCTGGCTGTGCAATACCTGGACCCCCGTGGGCGCCTGCGGAGTGCGGACAGCGAGAATGCCCTCTCTGTGCAGG
AGAGGAATGTGCCAACCAAGTCTCCAGTGCCCCCATCAACTGGCGCCGGGAAAGCTCCTGGGCCAGGGTGCCCT
TCGGCAGGGTCTATTTGTGCTATGACGTGGACACGGGACGTGAACCTTGCTTCCAAGCAGGTCCAATTTGATCCAG
ACAGTCTGAGACAAGCAAGGAGGTGAGTGCTCTGGAGTGCGAGATCCAGTTGCTAAAGAACTTGACAGCATGAGC
GCATCGTGACGTACTATGGCTGTCTGCGGGACCGCGCTGAGAAGACCCTGACCATCTTCATGGAGTACATGCCAG
GGGGCTCGGTGAAAGACCAGTTGAAGGCTTACGGTGCTCTGACAGAGAGCGTGACCCGAAAGTACACGCGGCAGA
TCCTGGAGGGCATGTCTACCTGCACAGCAACATGATTGTTACCCGGGACATTAAGGGAGCCAACATCCTCCGAG
ACTCTGCTGGGAATGTAAAGCTGGGGGACTTTGGGGCCAGCAAAACGCCCTGCAGACGATCTGTATGTGCGGGACGG
GCATGCGCTCCGTCACCTGGCACACCCTACTGGATGAGCCCTGAGGTGATCAGCGCGAGGGCTATGGAAGGAAAG
CAGACGTGTGGAGCCTGGGCTGCACTGTGGTGGAGATGCTGACAGAGAAACCACCGTGGGCAGAGTATGAAGCTA
TGGCCGCCATCTTCAAGATTGCCACCCAGCCACCAATCCTCAGCTGCCCTCCCACATCTCTGAACATGGCCGGG
ACTTCTGAGGCGCATTTTTGTGGAGGCTCGCCAGAGACCTTCAGCTGAGGAGCTGCTCACACACCACTTTGCAC
AGCTCATGTACTGAGCTCTCACGGCCACACAGCTGCCGGTGCCTTTTGTGTCATGGCAGGGGGCTGCTGCTGGG
CTCAGTGAAGTTGCTGCTTCTCCCAGGCAAGGCTGTGGACCATGGAGTGGCAGCCCAGCCAGCGTGGTCTGTGC
CCCTTCCGCCACTGGGGCTCAGAGCCGGGGTGGGGTGGCTGCAGCCTCAGGACTGGGAGCCCCCAGCCTGTGAGA
TCCAGGAGCTCCAGTGTCTGAGCTCAGCGTGGAGGGGTAGGGGCTGGGAACAGTGTGCAAGGCAGCCGTGGGCC
CCACCTCGGGGATGTGCTCTGACACTGCAATTGGCACCGAAGCCAGAGGGTCTGGGGGCACAAGACTGACGCC
AGGGTATGAAGAGTGTTATTTTCATTCAAAGTGTTATTTTGTCTTTTCCCTTCCAATGTCTGGAGACCACCAGGGCA
TCTCTGGGCTGGATGAGCTCCCACAAGCCTGAGGGAAAGGCCAGCACTCGCTAGCAGTGGCAGGCAGAGGGCCAG
GCTGCCGTCCCCTAGAGTCCCAGGTTGGCTCTGCCAGTCTGTCTTTACCAAAGATGAATGAAGCAAATGTCAT
GCTGCCTTATTCAGGGAAGGAGGAGCCTGTCTGCTGTGGCCATGACCCTGCCTCTCCAGGCAGGGGCCCGCG
ATGTGGAACGTCTGCCACTGAGGGGGGATCCAGTTTTGTCAATGCAGTTGTCTCTGTTTTACAAGTTGGAGTCAC
TCTTATGCTGTACCCAGTTTCTAAACTGGAGACTGTGTGTGCCCTCTGGGCTCTGAGTACCCCTGCTTTGGGCTT
GGGCCTAGGCTGCATTGAAAAGAGCTGAAGGTTGTGGCCTTTGCGCTCCTGGCCCAGCCTTTGTTCCCCACTGGA
GCAGAAGGGGAGATGGACGACACGGTGGGGGCATCTGGCCTGGCCAGTGCCCTGATCCCAGAGAGCCCAGGAGG
TGTCTCAGGCTGCCTGAGTGTGACCTGCTAGGCCAGAGCCCACTCCATCTGGTAGAAGGGGAAAGCCCATATGCT
ACCACAGCTGTGTCCAAACCGCCAGCTCTGTTCTTCTCAGCCAGCCTCGCCCATCCCCCTTGGAGTCTCAGCC
CCTTTCCCTTGTAGCTCCTCCCCCTGGAGGGGGAATGGCAGCAGGGGTGGGGAAACAGCATCTCCAAGCAGCTTA
GAGTTGGCCATATTTACCTCAGCCTGGGCGCTGGTCCTTTCTTCCGGCCCCCTCCCCTCCAAATGTGCCATTGC
TAGAGCTCCTCCTCTCAACACCCAGTTTCTTGGGAGTTGTCATTAAAGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4934

MDEQEALNSIMNDLVALQMNRRHRMPGYETMKNKDTGHSNRQSDVRIKFEHNGERRIIAFSRPVKYEDVEHKVTT
VFGQPLDLHYMNNELSILLKNQDDLDKAIDILDRSSSMKSLRILLLSQDRNHNNSSSPHSEVSRQVRIKASQSAGD
INTIYQPPEPRSRHLSVSSQNPGRSSPPPGYVPERQQHIARQGSYTSINSEGEFIPETSEQCMLDPLSSAENSL
GSCQSLDRSADSPSFRKSRMSRAQSFPDNRQEYSDRETQLYDKGVKGGTYPRRYHVSVHHKDYS DGRRTFPRI
HCGNLFTLVPSSRSLSTNGENMGLAVQYLDPRGRLRSADSENALSVQERNVPTKSPSAPINWRRGKLLGQGA
FYGRVYLCYDVTGRELASKVQVQFDPDSPETSKEVSALECEIQLLKNLQHERIVQYYGCLRDRAEKTLTIFMEY
MPGGSVKDQLKAYGALTESVTRKYTRQILEGMSYLHSNMIVHRDIKGANILRDSAGNVKLGDGASKRLQTIC
MSGTGMRSVTGTPYWMSPEVISGEGYGRKADVWSLGCTVVEMLTEKPPWAEYEAMAAIFKIATQPTNPQLP
SHISEHGRDFLRRIFVEARQRP SAEELLTHHFAQLMY

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FIGURE 4935

AGAAGGAGGCCCCAACCCCTGAGCACAAACAGCAACCTGGCCAATATCTTAGAGGTGTGTCGCAGCAAACATATGCC
CAAGTCAACGATTGAGACAGCACTGAAAATGGAGAAATCCAAGGACACTTATTTGCTGTATGAGGGTCGAGGCCC
TGGTGGCTCTTCTCTGCTCATCGAGGCATTATCTAACAGTAGCCACAAGTGCCAAGCAGACATTAGACATATCCT
GAATAAGAATGGAGGAGTGATGGCTGTAGGAGCTCGTCACTCTTTTGACAAAAGGGGGTGATTGTGGTTGAAGT
GGAGGACAGAGAGAAGAAGGCTGTGAACCTAGAGCGTGCCCTGGAGATGGCAATCGAAGCAGGAGCTGAGGATGT
CAAGGAAACTGAAGATGAAGAAGAAAGGAACGTTTTTAAATTTATTTGTGATGCCTCTTCACTGCACCAAGTGAG
GAAGAAGCTGGACTCCCTGGGCCTGTGTTCTGTGTCCTGTGCACTAGAGTTCATCCCCAACTCAAAGGTGCAGCT
GGCTGAGCCCGACCTGGAACAGGCCGCACATCTCATTCAAGGCTCTCAGCAACCACGAGGATGTGATTACAGTCTA
TGATAACATTGAATAACCAGGCTACATGTGCCCCGGGTTCCCTTAGAAATGTGGCAGCCCATTCCAGCACAC
AGGCTTCTGCAGCAATCTCTGAGGGTAAAGCCGGTGGGAGGCTCAGCAGGCCAGGAGGCCCAAGGACAGGACTTG
CGACCTTGAAGCCAAAGGAATCTCACTTGTGGGGCCTCCTTGTCAGCTCTGCTGCTGTCTCAGAGCCATCTGGAT
GAGTGTCCCGACACCCTCTCGGATGCAGGGCAGGACCACCCAGCTGGTCAGACTCTGATGTTGGGTAGCTGGCCT
CTGTGGGGATTGTAAGTGCCCTGAGGCGCTCTGTACTAGAACTGCTCTTAATAATAACGGTGATTATTGGTTGC
TGC

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FIGURE 4936A

CGGAGGAGGACGCGAGCCCCTTGCGGGCGGTTCATCACAGCCCAGCCTCGGGGCTGCCACAGCGGTTGCGCCTGT
GCGCCCTCGGTCCCCGCGTCCACTGAGCGCCGCGCTCGGGGATCGGGCCCCGGCCGGCCCCCGCGCCCTGGC
CTCGTCACTGCTGCGTGCCTGCTCCTCGGGTGCCTGCACCTCGGCCGTCCCGGCGCCCCCTGGGGACGCCG
CCCTCCCGGAACCCAACGTCTTCTCATCTTCAGCCATGGACTGCAGGGCTGCCTGGAGGCCAGGGCGGGCAGG
TCAGAGTCACCCQGGCTTGCAATACCAGCCTCCCTGCCAGCGCTGGAAGTGGGTCTCCCGAAACCGGCTATTCA
ACCTGGGTACCATGCAGTGCCTGGGCACAGGCTGGCCAGGCACCAACACCACGGCCTCCCTGGGCATGTATGAGT
GTGACCGGGAAGCACTGAATCTTGCCTGGCATTGTCGTACACTGGGTGACCAGCTGTCCTTGCTCCTGGGGGCC
GCACCAGCAACATATCCAAGCCTGGCACCCCTTGAGCGTGGTGACCAGACCCGAGTGGCCAGTGGCGCATCTACG
GCAGCGAGGAGGACCTATGTGCTCTGCCCTACCACGAGGTCTACACCATCCAGGGAAACTCCACGGAAAGCCGT
GCACCATCCCCTTCAAATATGACAACCAGTGGTTCCACGGCTGCACCAGCACGGGCCGCGAGGATGGTCACCTGT
GGTGTGCCACCACCCAGGACTACGGCAAAGACGAGCGCTGGGGCTTCTGCCCCATCAAGAGTAACGACTGCGAGA
CCTTCTGGGACAAGGACCAGCTGACTGACAGCTGCTACCAGTTTAACTTCCAGTCCACGCTGTCGTGGAGGGAGG
CCTGGGCCAGCTGCGAGCAGCAGGGTGGGATCTGCTGAGCATCACGGAGATCCACGAGCAGACCTACATCAACG
GCCTCCTCACTGGGTACAGCTCCACCCTGTGGATCGGCTTGAATGACTTGGACACGAGCGGAGGCTGGCAGTGGT
CGGACAACCTCGCCCCCTCAAGTACCTCAACTGGGAGAGTGACCAGCCGGACAACCCCACTGAGGAGAACTGTGGAG
TGATCCGCACTGAGTCTCGGGCGGCTGGCAGAACCGTGACTGCAGCATCGCGCTGCCCTATGTGTGCAAGAAGA
AGCCCAACGCCACGGCCGAGCCCAACCCCTCCAGACAGGTGGGCCAATGTGAAGGTGGAGTGCGAGCCGAGCTGGC
AGCCCTTCCAGGGCCACTGCTACCGCTGCAGGCCGAGAAGCGCAGCTGGCAGGAGTCCAAGAAGGCATGTCTAC
GGGGCGGTGGCGACCTGGTCAGCATCCACAGCATGGCGGAGCTGGAATTCATACCAAGCAGATCAAGCAAGAGG
TGGAGGAGCTGTGGATCGGCCTCAACGATTTGAACTGCAGATGAATTTTGAGTGGTCTGACGGGAGCCTTGTGA
GCTTCACCCACTGGCACCCCTTTGAGCCCAACAACCTCCGGGACAGTCTGGAGGACTGTGTACCATCTGGGGCC
CGGAAGGCCGCTGGAACGACAGTCCCTGTAACCACTCCTTGCCATCCATCTGCAAGAAGGCAGGCCAGCTGAGCC
AGGGGGCCGCGAGGAGGACCATGGCTGCCGGAAGGGTTGGACGTGGCACAGCCCATCCTGCTACTGGCTGGGAG
AAGACCAAGTGACCTACAGTGAGGCCCGGCGCTGTGCACTGACCATGGCTCTCAGCTGGTCACCATCACCAACA
GGTTCGAGCAGGCCTTCGTAGCAGCCTCATCTACAACCTGGGAGGGCGAGTACTTCTGGACGGCCCTGCAGGACC
TCAACAGCACCGGCTCCTTCTTCTGGCTCAGTGGGGATGAAGTCATGTACACCCACTGGAACCGGGACCAGCCCG
GGTACAGCCGTGGGGGCTGCGTGGCGCTGGCCACTGGCAGCGCCATGGGGCTGTGGGAGGTGAAGAAGTGTACCT
CGTTCGGGGCCGCTACATCTGCCGGCAGAGCCTGGGCACTCCAGTGACGCCGGAGCTGCCGGGGCCAGATCCCA
CGCCAGCCTCACTGGCTCCTGTCCCCAGGGCTGGGCCTCGGACACCAAACTCCGGTATTGCTATAAGGTGTTCA
GCTCAGAGCGGCTGCAGGACAAGAAGAGCTGGGTCCAGGCCAGGGGGCTGCCAGGAGCTGGGGGGCCAGCTGC
TGAGCCTGGCCAGCTACGAGGAGGAGCACTTTGTGGCCAACATGCTCAACAAGATCTTCGGTGAATCAGAACCCG
AGATCCACGAGCAGCACTGGTTCTGGATCGGCCTGAACCGTCCGGATCCAGAGGGGGTTCAGAGTTGGCGCTGGA
GCGACGGCGTAGGGTTCTCTTACCACAATTTGACCGGAGCCGGCACGACGACGACATCCGAGGCTGTGCGG
TGCTGGACCTGGCCTCCCTGCAGTGGGTGGCCATGCAGTGGCAGACACAGCTGGACTGGATCTGCAAGATCCCCA
GAGGTACGGACGTGCGGGAGCCCCGACGACAGCCCTCAAGGCCGACGGGAATGGCTGCGCTTCCAGGAGGCCGAGT
ACAAGTTCTTTGAGCACCACTCCACGTGGGCGCAGGCGCAGCGCATCTGCACGTGGTTCCAGGCCGAGCTGACCT
CCGTGCACAGCCAGGCAGAGCTAGACTTCCTGAGCCACAACCTGCAGAAGTTCTCCCGGGCCAGGAGCAGCACT
GGTGGATCGGCCTGCACACCTCTGAGAGCGATGGGCGCTTCAATGGACAGATGGTTCCATTATAAACTTCATCT
CCTGGGCACCAGGCAAACCTCGGCCTGTGCGCAAGGACAAGAAGTGCCTGTACATGACAGCCAGCCGAGAGGACT
GGGGGGACCAGAGGTGCCTGACAGCCTTGCCCTACATCTGCAAGCGCAGCAACGTCACCAAGAAACGCAGCCCC
CAGACCTGCCAACTACAGCCCTGGGGGGCTGCCCCCTGACTGGATCCAGTTCCTCAACAAGTGTTTTCAGGTCC
AGGGCCAGGAACCCAGAGCCGGGTGAAGTGGTCAGAGGCACAGTTCTCCTGTGAACAGCAAGAGGGCCAGCTGG
TCACCATCACAAACCCCTTAGAGCAAGCATTATCACAGCCAGCCTGCCCAATGTGACCTTTGACCTTTGGATTG
GCCTCCATGCCTCGCAGAGGGACTTCCAGTGGGTGGAGCAGGAGCCTTTGATGTATGCCAACTGGGCACCTGGGG
AGCCCTCTGGCCCTAGCCCTGCTCCAGTGGCAACAAACCGACCAGCTGTGCGGTGGTCTGCACAGCCCCCTCAG
CCCACTTCACTGGCCGCTGGGACGATCGGAGCTGCACGGAGGAGACCCATGGCTTCATCTGCCAGAAGGGCACGG
ACCCCTCCTGAGCCCGTCCCCAGCAGCGCTGCCCCCGCCCCGGGCACTGAGCTCTCTACCTCAACGGCACCT
TCCGGCTGCTTCAAGACCGCTGCGCTGGCACGATGCCCTCCTGCTGTGTGAGAGCCACAATGCCAGCCTGGCCT

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FIGURE 4936B

ACGTGCCCCGACCCCTACACCCAGGCCTTCCTCACGCAGGCTGCCCCGAGGGCTGCGCACGCCGCTCTGGATTGGGC
TGGCTGGCGAGGAGGGCTCTCGGCGGTACTCCTGGGTCTCAGAGGAGCCGCTGAACTACGTGGGCTGGCAGGACG
GGGAGCCGCAGCAGCCGGGGGGCTGTACCTACGTAGATGTGGACGGGGCCTGGCGCACCACCAGCTGTGACACCA
AGCTGCAGGGGGCTGTGTGTGGGGTTAGCAGTGGGCCCCCTCCTCCCCGAAGAATAAGCTACCATGGCAGCTGTC
CCCAGGGACTGGCAGACTCCGCGTGGATTCCCTTCCGGGAGCACTGCTATTCTTTCCACATGGAGCTGCTGCTGG
GCCACAAGGAGGCGCGACAGCGCTGCCAGAGAGCGGGTGGGGCCGTCCTGTCTATCCTGGATGAGATGGAGAATG
TGTTTGTCTGGGAGCACCTGCAGAGCTATGAGGGCCAGAGTCGGGGCGCCTGGCTGGGCATGAACTTCAACCCCA
AAGGAGGCACTCTGGTCTGGCAGGACAACACAGCTGTGAACTACTCCAACCTGGGGGCCCCGGGCTTGGGCCCCA
GCATGCTGAGCCACAACAGCTGCTACTGGATTGAGAGCAACAGCGGGCTATGGCGCCCCGGCGCTTGACCAACA
TCACCATGGGTGTCTGTCTGCAAGCTTCCTCGTGTGAGCAGAGCAGCTTCTCCCCATCAGCGCTTCCAGAGAACC
CAGCGGCCCTGGTGGTGGTGTCTGATGGCGGTGCTGCTGCTCCTGGCCTTGCTGACCGCAGCCCTCATCTTTACC
GGAGGCGCCAGAGCATCGAGCGCGGGGCCTTTGAGGGTGCCCGCTACAGCCGCAGCAGCTCCAGCCCCACCGAGG
CCACTGAGAAGAACAATCCTGGTGTGAGACATGGAAATGAATGAGCAACAAGAAATAGAGCCAGGCGCGTGGGCAGG
GCCAGGGCGGGAGGAGCTGGGGAGCTGGGGCCCTGGGTGAGTCTGGCCCCCACCAGCTGCCTGTCCAGTTGGCC
TATGGAAGGGTGCCCTTGGGAGTCGCTGTTGGGAGCCGGAGCTGGGCAGAGCCTGGGCTGGTGGGGTGCCACCCT
CCCACAAGGGCTGGGCTGAGACCCAGCTGAGTGCAGCGTGGCGTTTCCCTTTCTGGGGGGGCTGAGGTCTTGTC
ACCTGGTCTGTGCCCCACAGGAACCAGAGGTAGGATGGGAGGGGGAACGAGAGCCTCTTTCTCCCCAGAGCCC
CCGGCCCAGGCCTGTTGATCCGCGCCCCAGGACCCCTTCTTTGAGAGCCCGAGGAGCCTCCCCTGTCCCCTCG
GGCAGATCTGTTGTGTCTCTCTTCCACCTGGCAGCCTCAGCTCTGTGCCCCCACCCTGCTCCCTCTCGCCCCT
TCTCTCCACCCCTTCCTTCTGAGCCGGGCCCTGGGGATTGGGGAGCCCTCTTGTTCTGATGAGGGTCAGCTGA
GGGGGCTGAGCATCCATCACTCCTGTGCCTGCTGGGGTGGCTGTGGGGCGTGGCAGGAGGGGCTAGGTGGGTTG
GGCCTGAGAACCAGGGCACGGGTGTGGTGTCTGCTGGGCTGGAGATAAGACTGGGGAGAGACACCCCAACCTCCC
AGGGTGGGAGCTGGGCCGGGCTGGGATGTCATCTCCTGCCGGGCGGGGAGGGCTCTGCCCCTGGAAGAGTCCCC
TGTGGGGACCAAATAAGTTCCCTAACATCTCCAGCTCCTGGCTCTGGTTTGGAGCAAGGGGAAGGGTTGCCAGA
GTCCTGGGGGCCCCAGAGGAGCAGGAGTCTGGGAGGGGCCAGAGTTACCCCTCTAGTGGATCCAGGAGGAGCAGC
ACCCGAGCCCTGGAGTGGCCCAGTACCCTTCCAAGAGGCCACAGTCCCAGCCAGGACAAAGTATGCGGCCCATCC
TGGTGCGACAGCGTGGGACAATGTGAACATGGACTCGAAGACATGGCCCTTCTCTGTAGTTGATTTTTTAAATG
TGCCATTATTGTTTTT

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FIGURE 4937

MGPGRPAPAPWPRHLLRCVLLLGCLHLGRPGAPGDAALPEPNVFLIFSHGLQGCLEAQGGQVRVTPACNTSLPAQ
RWKQVSRNRLFNLTGMQCLGTGWPGTNTTASLGMYECDREALNLRWHCRTLGDLQLSLLLGARTSNISKPGTLERG
DQTRSGQWRIYGSEEDLCALPYHEVYTIQGNSHGKPCPTIPFKYDNQWFHGCTSTGREDGHLWCATTQDYGKDERW
GFCPIKSNDCETFWDKDLTDSCYQFNFQSTLSWREAWASCEQQGADLLSITEIHEQTYINGLLTGYSSTLWIGL
NDLDTSGGWQWSDNSPLKYNWESDQPDNPSEENCGVIRTESSGGWQNRDCSIALPYVCKKKPNATAEPTPPDRW
ANVKVECEPSWQPFQGH CYRLQAEKRSWQESKKACLRGGGDLVSIHSMAELEFITKQIKQEVEELWIGLNDLKLQ
MNFESDGSLSVSTHWHPFEPNNFRDSLEDCVTIWGPEGRWNDSPCNQSLPSICKKAGQLSQGAAEEDHGCRKGW
TWHSPSCYWLGEDQVTYSEARRLCTDHGSQLVTTITNRFEQAFVSSLIYNWEGEYFWTALQDLNSTGSFFWLSGDE
VMYTHWNRDQPGYSRGGCVALATGSAMGLWEVKNCTSFRRARYICRQSLGTPVTPPELPGPDPTPSLTGSCPQGWAS
DTKLRYCYKVFSSERLQDKKSWVQAQGACQELGAQLLSLASEEEHFVANMLNKIFGESEPEIHEQHWFWIGLNR
RDPGRGQSWRWSDBGVGSYHNFRDRHDDDDIRGCAVLDSLQWVAMQCDTQLDWICKIPRGTDVREPDDSPQG
RREWLRFQEA EYKFFEHHSTWAQAQRIC TWFAELTSVHSQAELDFLSHNLQKFSRAQEQHWWIGLHTSESDGRF
RWTGDSIINFISWAPGKPRPVGKDKKCVYMTASREDWGDQRCLTALPYICKRSNVTKETQPPDLPTTALGGCPSD
WIOFLNKCFOVQGQEPQSRVKWSEAQFSCEQQEAQLVTITNPLEQAFITASLPNVTFDLWIGLHASQRDFQWVEQ
EPLMYANWAPGEPSPGSPAPSGNKPTSCAVVLHSPSAHFTGRWDDRSCTEETHGFICQKGTDPSPSPSPALPPA
PGTELSYLNGTFRLLQKPLRWHDALLLCESHNASLAYVPDPTQAFLTQAARGLRTPWLWIGLAGEEGSRYSWVS
EEPLNYVGWQDGEPPQPGGCTYVDVDGAWRTTSCDTKLQGAVCGVSSGPPPPRRISYHGSCPQGLADSAWIPFRE
HCYSFHMELLGHKEARQRCQRAGGAVLSILDEMENVFVWEHLQSYEGQSRGAWLGMNFNPKGGTLVWQDNTAVN
YSNWGPPGLGPSMLSHNSCYWIQSNSGLWRPGACTNITMGVVKLPRAEQSSFSPSALPENPAALVVVLMAVLLL
LALLTAALILYRRRQSIERGAFEGARYSRSSSSPTEATEKNILVSDMEMNEQQE

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FIGURE 4938

GGAGCCGCGCCGCATCTCAGGCGCAGTCTCTAGGGGCTGTGCGCATCCGTGGGGGGGACATGCGCATCTCAGGGG
GGCTGCTCGCATCTGGGGGTGCTGTGTGCATCTCGGGGGGGCTGTGCCATCTAGCGGGGTGGCTGTGCGCATCT
GGAGGGGGCTGTGCGCAACCCGGGGGGGTGTTGCGCGCATCTAGCAGGGGCGGCTGTGCGCATTTTCGGGGGGGG
CTGTGCATATCTGGGGGGACCGTGCTTATCTCCGGGGGCGGCTGTGCGCATCTTGAGGGGTGTGTACATCTCGGG
GGCCTGTGCGCATCTTGGGGGGCTGTGTGCATCCGCGGGGGCTGTGCGCATCTCGGGGTGTGTGCGCTGCTCC
TCTGAGCTCTGCTCTTTCTTGACGCTTTGCCTCAGCATGGAGGGCGGGGCCGCGGCAGCCACCCCCACAGCACT
GCCTTACTACGTGGCCTTCTCCAGCTGCTGGGCCTGACCTTGGTGGCCATGACCGGCGCGTGGCTCGGGCTGTA
CCGAGGCGGCATTGCCTGGGAGAGCGACCTGCAGTTCAACGCGCACCCCCCTCTGCATGGTCATAGGCCTGATCTT
CCTGCAGGGAATGCCCTGCTGGTTTACCGTGTCTTCAGGAACGAAGCTAAACGCACCACCAAGGTCCTGCACGG
GCTGCTGCACATCTTTGCGCTCGTCATCGCCCTGGTTGGCTTGGTGGCGGTGTTGACTACCACAGGAAGAAGGG
CTACGCTGACCTGTACAGCCTACACAGCTGGTGCGGGATCCTTGTCTTGTCTGTACTTTGTGCACTGGCTGGT
GGGCTTCAGCTTCTTCTGTTCCCGGAGCTTCACTTCTCCCTGCGGAGCCGCTACCGCCACAGCACATCTTCTT
TGGTGTCTACCATCTTCTCTCTTTCCGTGGGCACCGCCCTGCTGGGCCTGAAGGAGGCACTGCTGTTCAACCTCGG
GGCAAGTATAGCGCATTTAGACCCGAGGGTGTCTGGCCAACGTGCTGGGCCTGCTGCTGGCCTGCTTCGGTGG
GGCGGTGCTCTACATCTTGACCCGGGCGGACTGGAAGCGGCCTTCCCAGGCGGAAGAGCAGGCCCTCTCCATGGA
CTTCAAGACGCTGACGGAGGGAGATAGCCCCGGCTCCAGTGATGCGCCCGGCCGGCCCTGGGGGTTTCGCGGGGT
GTCTTCTTGCTGCCCCCTGCTGAGGCGTCTTCAGGACTGCAGGCTCCGGAGAGTGGCTCTGGCAGCAGGCGGGCG
CGTGGGTGCAGCTGCATCTGTTTGAGTGTGCTTTCTGGGGTCAGGCTCCGCTCTCTGCTTCTCCTTTCTCC
GCTGCTATAGACCAGTTCAATTGTGTGTGGCTCCCGTGTCTCTGTTGCCCCCTTCAGTGCAGAAGGCTTTGGGTAG
GACTTCGGGTGTTTCGGTCTGGTGCAGAGCACAGATCTTTAAAGAAGCGAGAGAGGAGGCCCCACCTCCTGGC
AGCAGATGCCTGGGGCAAGGCCAGGGGAACTGGGGGGGCTCAGGGACAGGCCTGGAAAGGCCACGATGGCTGC
TGAATTCAAACAAGGAGTCCCTCCAGCCTGAATAACACGTGGCACAAATGGGCCCGGCCTTTGGCAGAGGAGCAA
GTGATATGATGTGTAAAGTATGTTGGTGGTGAAAGCAAGGTTCCCCAGGAGAGGGGAGGGACTGGCCCCCTGGGAA
GCTCTGAGATGAGGCTGTGGCCAGCTGTAGTCCTGACCTTCTCTTTAACCCTTTAGCCCTAGGATGGCTT
TGGTGGGAGAGGGGATAGAAGCCCATGACTTCAGACAGACTTCTCTTGGCAGATGCAGGCGGGCCTCCTCCAG
GCTGCTCCAGACATGGGGGTGGGGATGGGGGGCACCTTGACGCCCTTCTGCTGGGGCTCCTCCTTGTAGCA
CCCCCTTGCGGCTCAGCTCTGGTTTCTCTCTCCAGGCTCACCCAGGCTCTGCTCAGGCTGGGAGGCAGAGGGCA
CAAACCTTATAATTTTTTAAATGAAAAACCGCTGCTGCTGGCTGTGGCTAGAGCCCCCTGGGGCTGCTGGAGCTG
CTGCCTCTGTTCTGGAGGACGAGCCTTCTCCTTATCTGCTGCCATCTTTCCAGGAAGTCAGGATGGAGTCAGAA
CAACTACAGTCATCCCCGTGGTGTCTGCACATCACTCCAGCCCCATAAAGAGTGTATGTTAGCTGAGTCACCA
TTTGGCTTCGGCCTGGAAATAGTGTGATTAGAACACTGATCGTGTGCGAGGCCAGGAGATCAAGACCATCCTGAC
TAACAAACACAGTGAAACCCGCTCTCTACTAAAAATACAAAAAATTAGCCAGGCGTGGTGGTGGGCGCCTGTAG
TCCCAGCTACTTGGGAG

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FIGURE 4939

AGTATGTGTGGTTGGGGAATTCATGTGGAGGTCAGAGTGGAAGCAGGTGTGAGAGGGTCCAGCAGAAGGAAACAT
GGCTGCCAAAGTGTTTGAGTCCATTGGCAAGTTTGGCCTGGCCTTAGCTGTTGCAGGAGGCGTGGTGAACCTCTGC
CTTATATAATGTGGATGCTGGGCACAGAGCTGTCATCTTTGACCGATTCCGTGGAGTGCAGGACATTGTGGTAGG
GGAAGGGACTCATTTTTCTCATCCCGTGGGTACAGAAACCAATTATCTTTGACTGCCGTTCTCGACCACGTAATGT
GCCAGTCATCACTGGTAGCAAAGATTTACAGAATGTCAACATCACACTGCGCATCCTCTTCCGGCCTGTCGCCAG
CCAGCTTCCTCGCATCTTCACCAGCATCGGAGAGGACTATGATGAGCGTGTGCTGCCGTCCATCACAACGTAGAT
CCTCAAGTCAGTGGTGGCTCGCTTTGATGCTGGAGAACTAATCACCAGAGAGAGCTGGTCTCCAGGCAGGTGAG
CGACGACCTTACAGAGCGAGCCGCCACCTTTGGGCTCATCCTGGATGACGTGTCCTTGACACATCTGACCTTCGG
GAAGGAGTTCACAGAAGCGGTGGAAGCCAAACAGGTGGCTCAGCAGGAAGCAGAGAGGGGCCAGATTGTGGTGGA
AAAGGCTGAGCAACAGAAAAAGGCGGCCATCATCTCTGCTGAGGGCGACTCCAAGGCAGCTGAGCTGATTGCCAA
CTCACTGGCCACTGCAGGGGATGGCCTGATCGAGCTGCGCAAGCTGGAAGCTGCAGAGGACATCGCGTACCAGCT
CTCACGCTCTCGGAACATCACCTACCTGCCAGCGGGGCGAGTCCGTGCTCCTCCAGCTGCCCCAGTGAGGGCCCCAC
CCTGCCTGCACCTCCGCGGGCTGACTGGGCCACAGCCCCGATGATTCTTAACACAGCCTTCCTTCTGCTCCCACC
CCAGAAATCACTGTGAAATTTTCATGATTGGCTTAAAGTGAAGGAAATAAAGGTAAAATCACTTCAGATCTCTAAT
TAGTCTATCAAATGAACTCTTTTATTCTTCTCACATCCATCTACTTTTTTATCCACCTCCCTACCAAAAATTGC
CAAGTGCCTATGCAAACCAGCTTTAGGTCCCAATTCGGGGCCTGCTGGAGTTCCGGCCTGGGCACCAGCATTG
CAGCACGCAGGCGGGGCGAGTATGTGATGGACTGGGGAGCACAGGTGTCTGCCTAGATCCACGTGTGGCCTCCGTC
CTGTCACTGATGGAAGGTTTTCGGATGAGGGCATGTGCGGCTGAACTGAGAAGGCAGGCCTCCGTCTTCCCAGCG
GTTCTGTGCAGATGCTGCTGAAGAGAGGTGCCGGGGAGGGGCAGAGAGGAAGTGGTCTGTCTGTTACCATAAGT
CTGATTCTCTTTAACTGTGTGACCAGCGGAAACAGGTGTGTGTGAACTGGGCACAGATTGAAGAATCTGCCCCTG
TTGAGGTGGGTGGGCCTGACTGTTGCCCCCAGGGTCTTAAACTTGGATGGACTTGTATAGTGAGAGAGGAGGC
CTGGACCGAGATGTGAGTCCTGTTGAAGACTTCTCTCTACCCCCACCTTGGTCCCTCTCAGATACCCAGTGGA
ATTCCAACTTGAAGGATTGCATCCTGCTGGGGCTGAACATGCCTGCCAAAGACGTGTCCGACCTACGTTCTGGC
CCCCGTTTCAGAGACTGCCCTTCTCACGGGCTCTATGCCTGCACTGGGAAGGAAACAAATGTGTATAAACTGCT
GTCAATAAATGACACCCAGACCTTCC

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FIGURE 4940

MAAKVFESIGKFGLALAVAGGVVNSALYNVDAGHRAVIFDRFRGVQDIVVGEGTHFLIPWVQKPIIFDCRSRPRN
VPVITGSKDLQNVNITLRILFRPVASQLPRIFTSIGEDYDERVLPSITTEILKSVMVARFDAGELITQRELVSQV
SDDLTERAATFGLILDDVSLTHLTFGKEFTEAVEAKQVAQQEAERARFVVEKAEQQKAAIISAEGDSKAAELIA
NSLATAGDGLIELRKLEAAEDIAYQLSRSRNITYLPAGQSVLLQLPQ

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FIGURE 4941

AGATCGATCTAAGATGGCGACCGTCGAACCGGAAACCACCCCTACTCCTAATCCCCGACTACAGAAAAGGAGAA
AACGGAATCTAATCAGGAGGTTGCTAACCCAGAACACTATATTAAACATCCCCTACAGAACAGATGGGCACTCTG
GTTTTTTAAAAATGATAAAAGCAAAACTTGGCAAGCAAACCTTGTGGCTGATCTCCAAGTTTGATACTGTTGAAGA
CTTTTGGGCTCTGTACAACCATATCCAGTTGTCTAGTAATTTAATGCCTGGCTGTGACTACTCACTTTTTTAAGGA
TGGTATTGAGCCTATGTGGGAAGATGAGAAAAACAAACGGGGAGGACGATGGCTAATTACATTGAACAAAACAGCA
GAGACGAAGTGACCTCGATCGCTTTTGGCTAGAGACACTTCTGTGCCTTATTGGAGAATCTTTTGATGACTACAG
TGATGATGTATGTGGCGCTGTTGTTAATGTTAGAGCTAAAGGTGATAAGATAGCAATATGGACTACTGAATGTGA
AAACAGAGAAGCTGTTACACATATAGGGAGGGTATACAAGGAAAGGTTAGGACTTCCTCCAAAGATAGTGATTGG
TTATCAGTCCCACGCAGACACAGCTACTAAGAGCGGCTCCACCCTAAAATAGGTTTGTGTTTAAAGAAGACAC
CTTCTGAGTATTCTCATAGGAGACTGCGTCAAGCAATCGAGATTTGGGAGCTGAACCAAAGCCTCTTCAAAAAGC
AGAGTGGACTGCATTTAAATTTGATTTCCATCTAAATGTTACTCAGATATAAGAGAAGTCTCATTCGCCTTTGTC
TTGTACTTCTGTGTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTAGAGTTTACACTATCCCAATCAAAGAA
TTACAGTACACATCTCCAGAATCCATAAATGTGTTCCCTGGCCCACTCTGTAATAGTTCAGTAGAATTACCATTAA
TTACATACAGATTTTACCTATCCACAATAGTCAGAAAACAACCTTGGCATTCTATACTTTACAGGAAAAAAAATT
CTGTTGTTCCATTTTATGCAGAAGCATATTTTGCTGGTTTGAAAGATTATGATGCATACAGTTTCTAGCAATTT
TCTTTGTTTCTTTTTTACAGCATTGTCTTTGCTGTACTCTTGCTGATGGCTGCTAGATTTTAATTTATTTGTTTCC
CTACTTGATAATATTAGTGATTCTGATTTTCACTTTTCACTTTGTTTTGCTTTTGTTTTTTTCCTCATGTAACATT
GGTGAAGGATCCAGGAATATGACACAAAGGTGGAATAAACATTAATTTTGTGCATTCTTTGGTAATTTTTTTTGT
TTTTTGTAACCTACAAAGCTTTGCTACAAATTTATGCATTTCACTTCAAATCAGTGATCTATGTTTGTGTGATTTC
TAAACATAATTGTGGATTATAAAAAATGTAACATCATAATTACATTCCTAACTAGAATTAGTATGTCTGTTTTTG
TATCTTTATGCTGTATTTTAACTTTGTATTACTTAGGTTATTTTGCTTTGGTTAAAAATGGCTCAAGTAGAAA
AGCAGTCCCATTTCATATTAAAACAGTGTACAAAACCTGTAAATAAAATGTGTACAGTGAATTGTCCTT

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FIGURE 4942

AGATCGATCTAAGATGGCGACCGTCGAACAGATGGGCACTCTGGTTTTTTAAAAATGATAAAAGCAAAACTTGGC
AAGCAAACCTTGTGGCTGATCTCCAAGTTTGATACTGTTGAAGACTTTTGGGCTCTGTACAACCATATCCAGTTGT
CTAGTAATTTAATGCCTGGCTGTGACTACTCACTTTTAAAGGATGGTATTGAGCCTATGTGGGAAGATGAGAAAA
ACAAACGGGGAGGACGATGGCTAATTACATTGAACAAACAGCAGAGACGAAGTGACCTCGATCGCTTTTGGCTAG
AGACACTTCTGTGCCTTATTGGAGAATCTTTTGATGACTACAGTGATGATGTATGTGGCGCTGTTGTTAATGTTA
GAGCTAAAGGTGATAAGATAGCAATATGGACTACTGAATGTGAAAACAGAGAAGCTGTTACACATATAGGGAGGG
TATACAAGGAAAGGTTAGGACTTCCTCCAAAGATAGTGATTGGTTATCAGTCCACGCAGACACAGCTACTAAGA
GCGGCTCCACCCTAAAAATAGGTTTGTGTTTAAGAAGACACCTTCTGAGTATTCTCATAGGAGACTGCGTCAA
GCAATCGAGATTTGGGAGCTGAACCAAAGCCTCTTCAAAAAGCAGAGTGGACTGCATTTAAATTTGATTTCCATC
TAAATGTTACTCAGATATAAGAGAAG

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FIGURE 4943A

GCCGAGCACCGCGCACCGCGTCATGGGGGCCGCTCGGGCCGCCGGGGGCCGGGGCTGCTGCTGCCGCTGCCGCT
GCTGTTGCTGCTXGCCGCCGAGCCCCGCCCTGGCGTTGXXGACCCCGGGCTGCAGCCCXGAACTTTTCTXGCTG
ACGAGGCCGGGGCGCAGCTCTTCGCGCAGAGCTACAACTCCAGCGCCGAACAGGTGCTGTTCCXAGAGCGTGGCC
GCCAGCTGGGGCGACGACACCAACATCACCGCGGAGAATGXXXXXXXXXXGAGGAAGCAGCCCTGCTCAGCCAG
GAGTTXGCGXGGAGGCCTXGGGGCAGXAAGGCCAAXGGAGCTGTATGAACCGATCTGGCAGAACTTCACGGXACC
XCGCAXGCTGCGCAGGATCATCGGAGCTGTGCGCACCCCTGGGCTCTGCCAACXCTGCCCCCTGGCTAAGCGGCAGC
AGTACAACGCCCTGCTAAGCAACATGAGCAGGATCTACTCCACCGCCAAGGTCTGCCTCCCCAACAAGACTGCCA
CCTGCTGGTCCCTGGACCCAGATCTCACCAACATCCTGGCTTCTCGCGAACTACGXCCATGCTCCTGTTTGCCCT
GGGAGGGCTGGCACAATGCTGCGGGCATCCCGCTGAAACCGCTGTACGAGGATTTCACTGCCCTCAGCAATGAAG
CCTACAAGCAGGACGGCTTCACAGACACGGGGGCCCTACTGGCGCTCCTGGTACAACCTCCCCACCTTCGAGGACG
ATCTGGAACACCTCTACCAACAGCTAGAGCCCCCTCTACCTGAACCTCCATGCCTTCGTCCGCCGCGCACTGCATC
GCCGATACGGAGACAGATACATCAACCTCAGGGGACCCATCCCTGCTCATCTGCTGGGAGACATGTGGGGCCAGA
GCTGGGAAAACATCTACGACATGGTGGTGCCCTTCCAGACAAGCCCAACCTCGATGTCACCAGTACTATGCTGC
AGCAGGGCTGGAACGCCACGCACATGTTCCGGGTGGCAGAGGAGTTCTTCACCTCCCTGGAGCTCTCCCCATGC
CTCCCGAGTTCTGGGAAGGGTCGATGCTGGAGAAGCCGGCCGACGGGCGGGAAGTGGTGTGCCACGCCTCGGCTT
GGGACTTCTACAACAGGAAAGACTTCAGGATCAAGCAGTGACACGGGTCACGATGGACCAGCTCTCCACAGTGC
ACCATGAGATGGGCCATATACAGTACTACCTGCAGTACAAGGATCTGCCCCGTCTCCCTGCGTCGGGGGGCCAAACC
CCGGCTTCCATGAGGCCATTGGGGACGTGCTGGCGCTCTCGGTCTCCACTCCTGAACATCTGCACAAAATCGGCC
TGCTGGACCGTGTACCAATGACACGGAAAGTGACATCAATTACTTGCTAAAAATGGCACTGGAAAAAATTGCCT
TCTGCCCCTTTGCTACTTTGGTGGACAGTGCGCTGGGGGGTCTTTAGTGGCGTACCCCCCTTCCCGCTACA
ACTTCGACTGGTGGTATCTTCGAACCAAGTATCAGGGGATCTGTCTCCTGTTACCCGAAACGAAACCCACTTTG
ATGCTGGAGCTAAGTTTTCATGTTCCAAATGTGACACCATACATCAGGTACTTTGTGAGTTTGTCTGCAGTTCC
AGTTCCATGAAGCCCTGTGCAAGGAGGCAGGCTATGAGGGCCACTGCACCAAGTGTGACATCTACCGTCCACCA
AGGCAGGGGCCAAGCTCCGGAAGGTGCTGCAGGCTGGCTCCTCCAGGCCCTGGCAGGAGGTGCTGAAGGACATGG
TCGGCTTAGATGCCCTGGATGCCAGCCGCTGCTCAAGTACTTCCAGCCAGTCACCCAGTGGCTGCAGGAGCAGA
ACCAGCAGAACGGCGAGGTCTGGGCTGGCCCCGAGTACCAGTGGCACCCGCCGTTGCCTGACAACCTACCCGGAGG
GCATAGACCTGGTGAATGATGAGGCTGAGGCCAGCAAGTTTGTGGAGGAATATGACCGGACATCCCAGGTGGTGT
GGAACGAGTATGCCGAGGCCAACTGGAACCTACAACACCAACATCACCACAGAGACCAGCAAGATTCTGCTGCAGA
AGAACATGCAAAATAGCCAACCACACCCTGAAGTACGGCACCCAGGCCAGGAAGTTTGATGTGAACCAAGTTGCAGA
ACACCACTATCAAGCGGATCATAAAGAAGTTTCAGGACCTAGAACGGGCAGCACTGCCTGCCAGGAGCTGGAGG
AGTACAACAAGATCCTGTTGGATATGGAACCACTACAGCGTGGCCACTGTGTGCCACCCGAATGGCAGCTGCC
TGCAGCTCGAGCCAGATCTGACGAATGTGATGGCCACGTCCCGGAAATATGAAGAOCTGTTATGGGCGATGGGAGG
GCTGGCGAGACAAGGCGGGGAGGCCATCCTCCAGTTTTACCCGAAATACGTGGAACCTCATCAACCAGGCTGCCC
GGCTCAATGGCTATGTAGATGCAGGGGACTCGTGGAGGTCTATGTACGAGACACCATCCCTGGAGCAAGACCTGG
AGCGGCTCTTCCAGGAGCTGCAGCCACTCTACCTCAACCTGCATGCCTACGTGCGCCGGGGCCCTGCACCGTCACT
ACGGGGCCCAGCACATCAACCTGGAGGGGCCCATTCCTGCTCACCTGCTGGGGAACATGTGGGCGCAGACCTGGT
CCAACATCTATGACTTGGTGGTGCCCTTCCCTTCAGCCCCCTCGATGGACACCACAGAGGCTATGCTAAAGCAGG
GCTGGACGCXCCAGGAGGATGTTTAAGGAGGCTGATGATTTCTTCACCTXCCCTGGGGCTGCTGCCCGTGCCCTCC
TGAGTTCTGGAACAAGTCGATGCTGGAGAAGCCAACCGACGGGCGGGAGGTGGTCTGCCACGCCTCGGCCCTGGGA
CTTCTACAACGGCAAGGACTTCCGGATCAAGCAGTGACACCACCGTGAACCTTGGAGGACCTGGTAGTGGCCACCA
CGAAATGGGCCACATCCAGTATTTTCATGCAGTACAAAGACTTACCTGTGGCCTTGAGGGAGGGTGCCAACCCCGG
CTTCCATGAGGCCATTGGGGACGTGCTAGCCCTCTCAGTGTCTACGCCAAGCACCTGCACAGTCTCAACCTGCT
GAGCAGTGAGGGTGGCAGCGACGAGCATGACATCAACTTTCTGATGAAGATGGCCCTTGACAAGATCGCCTTTAT
CCCCTTCAGCTACCTCGTCGATCAGTGGCGCTGGAGGGTATTTGATGGAAGCATCACCAGGAGAACTATAACCA
GGAGTGGTGGAGCCTCAGGCTGAAGTACCAGGGCCTCTGCCCCCAGTGCCAGGACTCAAGGTGACTTTGACCC
AGGGGCCAAGTTCCACATTCCTTCTAGCGTGCTTACATCAGGTACTTTGTGAGCTTCATCATCCAGTTCCAGTT
CCACGAGGCACTGTGCCAGGCACTGGCCACACGGGCCCCCTGCACAAGTGTGACATCTACCAGTCCAAGGAGGC
CGGGCAGCGCCTGGCGACCGCCATGAAGCTGGGCTTCAGXTAGGCCGTGGCCGGAXAGCCATGCAGCTGATCAGC

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FIGURE 4943B

XXGGCCAGCCCXAACATGAGCGCCTCGGCCATGTTGAGCTACTTCAAGCCGCTGCTGGAXCTGGCTCCGCACGGA
GAACGAGCTGCATGGGGAGAAGCTGGGCTGGCCGCAGTACAACCTGGACGXCCGAACTCCGCTCGCTCAGAAGGGC
CCCTCCCAGACAGCGGCCGCGTCAGCTTXXCCTGGGCCTGGACCTGGATGCGCAGGAGGCCCGCGTGGGCXCAGXT
GGCTGCTGCTCTTCCTGGGCATCGCCCTGXCTGGTAGCCACCCTGGGCCTCAGCCAGCGGCTXCTTXCAGCATCC
GCCACCGCAGCCTCCACCGGCACTCCACGGGCCCCAGTTCCGGCTCCGAGGTGGAGCTGAGACACTCCTGAGGTG
ACCCGGCTGGGTTCGGCCCTGCCCAAGGGCCTCCCACCAGAGACTGGGATGGGAACACTGGTGGGCAGCTGAGG

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FIGURE 4944

TGACCCAGGACTCTTTGTTTATTGCTGTGATTTTTCTTCCACAGCTATAGAACTGGTCCAGACAAATTCAGAATA
TGATCCTTCTCGGTGTTTTGCCTTTGTTTCACGACCTGTGTGATGAAGAGAAGAGTTACCCAGTGCCCAAGGGCAG
TCTTGATATTATCATTCTCATATTTGTTCTTTTCAGCAATTGTTCCAGACAAGATGCAGAAGGCTATCAACAGGCT
GAGCAGGCTTCTGAAACCTGGCGGGATGATGCTTCTGCGAGATTACGGCCGCTATGACATGGCTCAGCTTCGGTT
TAAAAAAGGTCAGTGTCTATCTGGAAATTTCTACGTGAGAGGTGATGGAACCAGAGTTTACTTCTTCACACAAGA
GGAACCTGGACACGCTTTTCACCACTGCTGGACTGGAAAAAGTTTCAGAACCTGGTGGATCGCCGACTGCAGGTGAA
CCGAGGAAAGCAACTGACAATGTACCGGGTTTGGATTTCAGTGCAAATACTGCAAGCCCCCTTCTGTCCAGCACCAG
CTGAGAGGCACCTGCTGCCAACACGATGCAAGCCCATTGTGTTTTCCGGGCTTTTTTAAAAAAAAAAATTGTAGCAC
TGGGCGTGGTGCATGCCTGTAATCCCAGCCACTCAGGAGGCTGAGGCGGGGAGGATCCATTGAGCCCAGCAGTCC
AACCTGGGCAAAATAGTGAGAGACCCTGTATCTGAAAGTAATAATAAAAAATAAAAAATATAAATGAGGTCTCGTT
GATGTTGGACAATTCAAGAATTCAGACTTGAACCTTAAACCTAGGAAAAGTTACTTTGTATCAGGATTCTAACAA
TTATGCTTCATATTTGTGAAGTCCTTTAAAACATAATTTTCTCAAGTCTTTCTTTGAGATCTCAATCTGTCTTA
GCATTTTGTAACTAATAACTGAAATTTTATTCAAAGGAATTGTAAACCTTAAACCACCAATTTATTTCCATGTGA
AAAAGTGTTACATATGACAAGTGTTTTTTGACTGTAATTGCGTTAAATCTTTTGAGAATGTAAATGCCGGGCTAG
GCAATTGCAGTTAATACATACAGAGGTTAGTGAAGGGCTTATTAAGTTGTAGGGGAAGCAAGCTGGGAAGAATCA
GATCAGATATTTTCCTGAC

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FIGURE 4945

AGGTTGAGCTTGTTGGTTTAGATGAGGAGAGTTGAGAGTTTATTTGCAGAAACACCTTTGACCACCCATACCCCA
CCACAAAGCTCATGTGGATCCCTGACACAAAAGGCGTCTATCCAGACCTACTGGCAACAAGCGGTGACTATCTCC
GTGTGTGGAGGGTTGGTGAACAGAGACCAGGCTGGAGTGTGTTGCTAAACAATAATAAGAACTCTGATTTCTGTG
CTCCCTGACCTCCTTTGACTGGAATGAGGTGGATCCTTATCTTTTAGGTACCTCAAGCATTGATACGACATGCA
CCATCTGGGGGCTGGAGACAGGGCAGGTGTTAGGGCGAGTGAATCTCGTGTCTGGCCACGTGAAGACCCAGCTGA
TCGCCCATGACAAAGAGGTCTATGATATTGCATTTAGCCGGGCGGGGGTGGCAGGGACATGTTTGCCTCTGTGG
GTGCTGATGGCTCGGTGCGGATGTTTGACCTCCGCCATCTAGAACACAGCACCATCATTTACGAAGACCCACAGC
ATCACCCACTGCTTCGCCTCTGCTGGAACAAGCAGGACCCTAACTACCTGGCCACCATGGCCATGGATGGAATGG
AGGTGGTGATTCTAGATGTCCGGGTTCCCTGCACACCTGTGCGCCAGGTTAAACAACCATCGAGCATGTGTCAATG
GCATTGCTTGGGCCCCACATTCATCTGCCACATCTGCACTGCAGCGGATGACCACCAGGCTCTCATCTGGGACA
TCCAGCAAATGCCCCGAGCCATTGAGGACCCTATCTGGCCTACACAGCTGAAGGAGAGATCAACAATGTGCAGT
GGGCATCAACTCAGCCCGACTGGATCGCCATCTGCTACAACAAGTGCCTGGAGATACTCAGAGTGTAGTGTGGT
GGCGCTGTGCCCACGAGGCAGGGGCTTTTGTATTTCTGCTCTGCCCCACCCCCAAAGTAAGAAGAAACATGTT
TCCAGTGGCCAGTATGTCTTTTATTGCTTTGCACCCACTGTTACCAGAAGCTGCTCTAGGAGTTCTGGCCAGTC
ACCCCATCGCCCTCTGTGGCAGACTCAGTGCTGTGTGGCGCCTCCTCAGCCCAGGGCTGAGTTTAAAGATTTTCT
CTCCTTCTCTTCTCCTTTGGTTCCTCAATTAA

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FIGURE 4946

ATGAGTGGCTCCTTCGATCGCAAGCTCAGCAGCATCCTCACCGACATCTCCAGCTCCCTTAGCTGCCATGCGGGC
TCCAAGGACTCGCCTACCCGAGTCTTCTGTCACTGACCTGGGCTACTACAGCGCTCCCCAGCACGATTAC
TACTCGGGCCAGCCCTATGGCCAGACGGTGAACCCCTACACCTACCACCACCAATTCAATCTCAATGGGCTTGCA
GGCACGGGCGCTTACTCGCCCAAGTCGGAATATACCTACGGAGCCTCCTACCGGCAATACGGGGCGTATCGGGAG
CAGCCGCTGCCAGCCCAGGACCCAGTGTCGGTGAAGGAGGAGCCGGAAGCAGAGGTGCGCATGGTGAATGGGAAG
CCCAAGAAGGTCCGAAAGCCGCGTACAATCTACTCCAGCTACCAGCTGGCCGCCCTGCAGCGCCGCTTCCAGAAG
GCCCAGTACCTGGCGCTGCCCAGCGCGCCGAGCTGGCCGCGCAGCTGGGCCTCACGCAGACACAGGTGAAAATC
TGGTTCCAGAACC GCCGTTCCAAGTTCAAGAACTCTACAAGAACGGGGAGGTGCCGCTGGAGCACAGTCCCAAT
AACAGTGATTCCATGGCCTGCAACTCACCACCATCACCCGCCCTCTGGGACACCTCTTCCCACTCCACTCCGGCC
CCTGCCCCGAGTCAGCTGCCCCCGCGCTCCCATACAGTGCCCTCCCCCAGCTACCTGGACGACCCACCAACTCC
TGGTATCACGCACAGAACCTGAGTGGACCCCACTTACAGCAGCAGCCGCTCAGCCAGCCACCCTGCACCATGCC
TCTCCCGGGCCCCCGCCCAACCCTGGGGCTGTGTACTTGA

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FIGURE 4947

MSGSFDRKLSSILTDISSSLSCHAGSKDSPTLPRESSVITDLGYYSAPQHDIYSGQPYGQTVNPFYTYHHQFNLNGLA
GTGAYSPKSEYTYGASYRQYGAYREQPLPAQDPVSVKEEPEAEVRMVNGKPKKVRKPRTIYSSYQLAALQRRFQK
AQYLALPERAELAAQLGLTQTQVKIWFQNRRSKFKKLYKNGEVPLEHSPNNSDSMACNSPPSPALWDTSSHSTPA
PARSQLPPPLPYASPSYLDPTNSWYHAQNLSGPHLQQQPPQATLHHASPGPPPNPGAVY

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FIGURE 4948

CCCGTCACCAAGCTGGGCCGCTTGGTCAAGGAAATGAAGATCAAATCCCTGGAGGAGATCTATCCCTTCTCCCTG
CCCATTAAGGTATCTGAGATCATTGACTTTTTCTGGGGGCCTCTCTTAAGGACGAGGTTTTGAAGATTATGTCG
GTGCAGAAGCAGACCCGCTGCGGCTCTGTGCTGGTGCGCCTCATCCCTGCACCCAGGGGCACTGGCATTGTCTCC
GCACCTGTGCCCAAGAAGCTGCTCATGATAGCTGGTATCGATGACTGCTACACCTCAGCCCGGGGCTGCACTGCC
ACCCTGGGCAACTTCGCCAAGGCCACCTTTGACGCCATCTCTAAGACCTACAGCTACCTGACCCCCGACCTCTGG
AAGGAGACTGTATTTACCAAGTCTCCCTGTCAGGAATTCAGTACCACCTCGTCAAGACCCACACCAGAGTCTTC
GTGCAGCAGACCCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTTATACAAGAAAAATAAAGTGAATTAAGC

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FIGURE 4949

MKIKSLEEIYPFSLPIKVSEIIDFFLGASLKDEVLKIMSVQKQTRCGSVLVRLIPAPRG TGIVSAPVPKKLLMIA
GIDDCYTSARGCTATLGNFAKATFDAISK TYSYLT PDLWKETVFTKSPCQEFTDHLVKTHTRV FVQQTQAPAVAT
T

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FIGURE 4950

AGACCCTTTTTACAAGATGGCGCCGAAAGCGAAGAAGGAAGCTCCTGCCCCCTCCTAAAGCCGAAGCCAAAGCGAA
GGCTTTTAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAAGAAGATCCGCACGTCACCCAC
CTTCCGGCAGCCGAAGACACTGCGACTCTGGAGACAGCCCAAATATCCTCGGAAGAGCGCTCCCAGGAGAAACAA
GCTTGACCACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGACAGAAGACAACAACAC
ACTTGTGTTTCCTTGTGGATGTTAAAGCCAACAAGCACCAGATTAAACAGGCTGTGAAGAAGCTCTATGACATTGA
TGTGGCCAAGGTCAACACCCTGATTTGGCCTGATGGAGAGAAGAAGGCATATGTTGACTGGCTCCTGGTTACGA
TGCTTTGGATGTTGCCAACAAAATTGGGATCATCTAACTGAGTCCAGCTGCCTAATTCTGAATATATATATATA
TATATATATATATATATATATATCTTTTCACCAT

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FIGURE 4951

GCAACCGCAGCCCAGCCCCAGTCCGGGAGGAAGTTCTGCCGGGCGCTCTCCGCCGGTGCCTCACTGGTTATAGTG
CTATACAGGAAACCTGGCAGCGCCGGAGCCGCGCGGTTCGAGGAGGGAGCGCGGGACCCGAGCCCACGCGCGCCT
GCCGGGACAAGTGGAGACGAGGCCGGCGAGCGGACGCCCCGAGGTTTGGCGAAGGAGCTGTGGCCGGGTCCCTT
CTTATCCAGCCCGAGACACTGCGCTCCGGTGGGCGTCCCTGCGCTGGGAATCCCTCTCGGAGTTTTTCCAGGCC
GGCCGGGTGCTCCGGGAAAGGCCCTGTTGGGGGAGGTGGGCCCGGAGCTGGCAGGTCTACAATCCGGTTGGAAG
GGCTCGCAGTGGGTGATTCAAGGTGCCAATGACCTCCCCGCGAACGGGAACGCCCGCACTAGACAACCAGCCCCA
GACCGGCATTCCCAGAGCCGAGGCGGGAGGGACGCAGGGACTCCGGGACAGCAAATCCCCGGGGGAGAAGGGAA
GGGGGAAGGCGGGACAGGGGAGGCCACCCTCCTTGGGCTCCGCTAGCGACCAGCCAGCGCCCCCTTCAGACGCAG
CCTTCCTGGCTCCGGACCCCGGCTTTCTGCTCCGGTCTCGTCCCAATGCCCCCAAGGTCCCCAGCAGAGGCAT
TCAGGTTCTCCTCGCCCCGCCAGACGCAGCTTCTTTGGGTATGGGTGACAGCACTCCTGAGCGTCGCTGTCCC
TATTGCTGCGGTTGCCAGCTCCGATTCCGCGAAACCTCTCCGGCACCACTCGGAAGCCCCGCCAGGGCGATG
GTCCGGGCCTAACCTGCCGGCCCCGCCACCCGGCCCTTGGGCTCCCTGAGGCCCCGCCAGCAGACACCGGAGAG
CAATGGTGTGATCTCCGCACACTGCAACCTCTGCCTCCAGGGTTCAAGTGGTTCTCCTGCCTCAGCCTCCCAAGC
AGATGGGACTACAGGTACTGGTAGTTAACTCTCAAGGAGAAATTTACGGTTGAGCACCGAAAAAGAAAGTGGTCA
TGAAAGGAAGTATCAACAATTATCTTAAATTGGGTCAAGAAGGAAGTATCGCGTCTACCACAATCAATACTCCA
CTAATTCATTTGCTTTGAATAAGCACCAGCACAGAGAAGACCATGATAAGAGAAGGCATCTTGCACATAAGTTCT
GTCTGACTCCAGCAGGAGAGTTCAAATGGAACGGTCTGTCCATGGGTCCAAAGTTCTTACCATATCTACTCTGA
GACTGACTATACCCAATTAGAAAAACAACATCCCTTCATCCTTTCTTCATCCCAACCGGGCATCACATAGGGCAA
ACTGGATCAAGGCAGTTCAGATGTGTAGCAAACCTCAGAGAATTTGCATTGGCTTTAGCCATTTTGGAGTGTGCAG
TTAAACCAGTTGTGATGCTACCAATATGGCGAGAATCTTTAGGACATACCAGCTTTCTCCCTTTGTCTCATAACC
ATGTCCACCAATGAGAATGCTAATACACAAGCTGCCATCTTCACAGATCTAAGAACAAGGGAAAGGACAGTACA
GAAACGAGGCGTCACAGAATAGAGGTCAATGTGGAGCTGAGGAAAGCTAAGAAGGATGACCAGATGCTGAAGAGG
AGAAATGTAAGCTCATTTCTGATGATGCTACTTCTCCGCTGCAGGAAACTGCAACAACCAGGACTCCTGCCCT
AAGAGCCATAGGGAATATCGTCACTGGTACAGATGAACAGACTCAGGTTGTGATTGATGCAGGAGCACTCGCCGT
CTTTCCCAGCCTGCTCACCAACCCCAAACTAACATTGAGAAGGAAGCTACGTGGACAATGTCAAACATCACAGC
CAGCCGCCAGGACCAGATACAGCAAGTTGTGAATCATGGATTAGTCCATTCTTGTGTCAGCGATCTCTCTAAGAT
TTTGAGACACAAAAGGAAGCTGTATGGGCCGTGGAACAGTTGAACAGATTGTGTACCTTGTTCAGTGTGGCATAA
TAGAACCGTTGATGAACCTCTTACCTGCAAAAGATACCAAGATTATTCTGGTTATCCTGGATGCCATTTCAAATA
TCTTTCAGGCTGCTGAGAACTAGGTGAAACTGAGAACTTAGTATAATGATTGAAGAATGTGGAGGCGTAGACA
AAATTGAAGCTCTACAAAACCATGAAAATGAGTCTGTATATAAGGCTTCATTAAGCTTAACTGAGAAGTATTTCT
CTGTAGAGCTGCCAGAGCAGAGCTGAGCCACCCATTGCTGGAGAGGACATCCACGCAGGCCTGGACGAGCCGGAC
TGCCTTACTAAGGATTTCTCCGTATCTGACTGCAACTCAGCACTCAGCTGCATGCGGGACAGGAAGAGGAAGAT
CAAAACGTTGTGCCAGAACTACCTCTGAAGGCTACACTTTCCAAGTTCAGGATGGGGCTCCTGGGACCTTTAAC
TTTTAGATCATGTAGCTGAGGCATAAATTTGTTGTGTACTATGTTTGGTATTTTGTCTTATTGTTTCTCTACTAA
GAACTCTTTCTTAAATGTGGTTTGTATTGTAGCACTTTTACACTGAACTATACTTGAACAGTTCCAAGTGA
CATACTGTATGAAGCTTGTCTCTGACTAGGTTTCTAATTTCTATGTGGAATTTCTATCTTGCAGCATCCTGTA
AATAAACATTCAAGTCCACCCTTTTCTTGACTTC

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FIGURE 4952

MTSPRTGTPALDNQPQTGIPRAAGGRDAGTPGQQIPGGEGKGEGGTGEAHPPWAPLATSQRPFRRSLPGSGPRLS
APVLVPMPPKVP SRGIQVPPRPAQTQLLWVWVTALLSVAVPIRCRCQLRFRETSPAPPRKPRPGRWSGPNLEAPP
TRPLGSLRPAQQTPESNGVISAHCNLCLOGSSGSPASASQADGTTGTGS

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FIGURE 4953

GCCAGTGAATTCGGGGGCTCAGCCCTCCTCCCTCCCTTCCCCCTGCTTCAGGCTGCTGAGCACTGAGCAGCGCTC
AGAATGGAAGCCATCGCCAAATATGACTTCAAAGCTACTGCAGACGACGAGCTGAGCTTCAAAGGGGGGACATC
CTCAAGGTTTTGAACGAAGAATGTGATCAGAACTGGTACAAGGCAGAGCTTAATGGAAAAGACGGCTTCATTCCC
AAGAACTACATAGAAATGAAACCACATCCGTGGTTTTTTGGCAAAATCCCCAGAGCCAAGGCAGAAGAAATGCTT
AGCAAACAGCGGCACGATGGGGCCTTTCTTATCCGAGAGAGTGAGAGCGCTCCTGGGGACTTCTCCCTCTCTGTC
AAGTTTGGAACGATGTGCAGCACTTCAAGGTGCTCCGAGATGGAGCCGGGAAGTACTTCTCTGGGTGGTGAAG
TTCAATTCTTTGAATGAGCTGGTGGATTATCACAGATCTACATCTGTCTCCAGAAACCAGCAGATATTCCTGCGG
GACATAGAACAGGTGCCACAGCAGCCGACATACGTCCAGGCCCTCTTTGACTTTGATCCCCAGGAGGATGGAGAG
CTGGGCTTCCGCCGGGGAGATTTTATCCATGTCATGGATAACTCAGACCCCAACTGGTGGAAGGAGCTTGCCAC
GGGCAGACCGGCATGTTTCCCCGCAATTATGTCACCCCCGTGAACCGGAACGCTTAAGAGTCAAGAAGCAATTAT
TTAAAGAAAGTGAAAAATGTAAACACATACAAAAGAATTAAACCCACAAGCTGCCTCTGACAGCAGCCTGTGAG
GGAGTGCAGAACACCTGGCCGGGTCAACCCTGTGACCCTCTCACTTTGGTTGGAACTTTAGGGGGTGGGAGGGGGC
GTTGGATTTAAAAATGCCAAACTTACCTATAAATTAAGAAGAGTTTTTATTACAAATTTTCACTGCTGCTCCTC
TTTCCCTCCTTTGTCTTTTTTTTCATCCTTTTTTCTCTTCTGTCCATCAGTGCATGACGTTTAAGGCCACGTAT
AGTCCTAGCTGACGCCAATAATAAAAAACAAGAAACCAAAAAAAAAAAAAACCCGAATTCA

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FIGURE 4954

MEAIKYDFKATADDELSFKRGDILKVLNEECDQNWYKAELNGKDGFI PKNYIEMKPHPWFFGKIPRAKAEEMLS
KQRHDGAFLIRESE SAPGDFSLSVKFGNDVQHFKVLRDGAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRD
IEQVPQQPTYVQALFDFDPQEDGELGFRRGDFIHVMDNSDPNWWKGACHGQTGMFPRNYVTPVNRNV

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FIGURE 4955

GGCACGAGGGCTCTGAGCGGGAGGCCTGAGCGGGAAGCATTGGCGTCCGAGCGACTTCTAGGAGCCTGGGGTTTCG
GCGCTATGGAGGAGCTCGATGGCGAGCCAACAGTCACCTTTGATTCCAGGCGTGAATTCCAAGAAGAACCAAATGT
ATTTTGACTGGGGTCCAGGGGAGATGCTGGTATGTGAAACCTCCTTCAACAAAAAGAAAAATCAGAGATGGTGC
CAAGTTGCCCCCTTTATCTATATCATCCGTAAGGATGTAGATGTTTACTCTCAAATCTTGAGAAAATCTTCAATG
AATCCCATGGAATCTTTCTGGGCCTCCAGAGAATTGACGAAGAGTTGACTGGAAAATCCAGAAAATCTCAATTGG
TTCGAGTGAGTAAAAACTACCGATCAGTCATCAGAGCATGTATGGAGGAAATGCACCAGGTTGCAATTGCTGCTA
AAGATCCAGCCAATGGCCGCCAGTTCAGCAGCCAGGTCTCCATTTTGTGAGCAATGGAGCTCATCTGGAACCTGT
GTGAGATTCTTTTTATTGAAGTGGCCCCAGCTGGCCCTCTCCTCCTCCATCTCCTTGACTGGGTCCGGCTCCATG
TGTGCGAGGTGGACAGTTTGTGCGCAGATGTTCTGGGCAGTGAGAATCCAAGCAAACATGACAGCTTCTGGAAC
TGGTGACCATCTTGGTGCTGCAGGGCCGGCTGGATGAGGCCGACAGATGCTCTCCAAGGAAGCCGATGCCAGCC
CCGCTCTGCAGGCATATGCCGAATCATGGGGGACCTGATGAGGACAATGCCATTCTTAGTCTGGGAACACCC
AGACACTGACAGAGCTGGAGCTGAAGTGGCAGCACTGGCAGGGAATGTGAGCGGTACCTCCAGGACAGCACAT
TCGCCACCAGCCCTCACCTGGAGTCTCTCTTGAAGATTATGCTGGGAGACGAAGCTGCCTTGTTAGAGCAGAAGG
AACTTCTGAGTAATTGGTATCATTTCCTAGTGACTCGGCTCTTGTACTCCAATCCCACAGTAAAACCCATTGATC
TGCACTACTATGCCAGTCCAGCCTGGACCTGTTTCTGGGAGGTGAGAGCAGCCCAGAACCCCTGGACAACATCT
TGTTGGCAGCCTTTGAGTTTGACATCCATCAAGTAATCAAAGAGTGCAGCATCGCCCTGAGCAACTGGTGGTTTG
TGGCCACCTGACAGACCTGCTGGACCACTGCAAGCTCCTCCAGTCACACAACCTCTATTTTCGGTTCCAACATGA
GAGAGTTCCTCCTGCTGGAGTACGCCTCGGGACTGTTTGCTCATCCAGCCTGTGGCAGCTGGGGGTCGATTACT
TTGATTACTGCCCCGAGCTGGGCCGAGTCTCCCTGGAGCTGCACATTGAGCGGATACCTCTGAACACCGAGCAGA
AAGCCCTGAAGGTGCTGCGGATCTGTGAGCAGCGGCAGATGACTGAACAAGTTCGCAGCATTGTGAAGATCTTAG
CCATGAAAGCCGTCCGCAACAATCGCCTGGGTTCTGCCCTCTCTTGGAGCATCCGTGCTAAGGATGCCGCCTTTG
CCACGCTCGTGTGACAGAGTTTCTCAGGGATTACTGTGAGCGAGGCTGCTTTTCTGATTGGATCTCATTGACA
ACCTGGGGCCAGCCATGATGCTCAGTGACCGACTGACATTCTGGGAAAGTATCGCGAGTTCACCGTATGTACG
GGGAGAAGCGTTTTGCCGACGCAGCTTCTCTCCTTCTGTCCTTGATGACGTCTCGGATTGCCCCTCGGTCTTTCT
GGATGACTCTGCTGACAGATGCCTTGCCCCCTTTGGAACAGAAACAGGTGATTTTCTCAGCAGAACAGACTTATG
AGTTGATGCGGTGTCTGGAGGACTTGACGTCAAGAAGACCTGTGCATGGAGAATCTGATACCGAGCAGCTCCAGG
ATGATGACATAGAGACCACCAAGGTGGAATGCTGAGACTTCTCTGGCACGAAATCTTGCTCGGGCAATTATAA
GAGAAGGCTCACTGGAAGGTTCTTGAGAACTGCTTCAATGTGGTATCTTTGTATGGCAATGTATATAGATTTTTT
AAAAGAATAAATGTTGTTTTGCAAATGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4956

MEELDGEPTVTLIPGVNSKKNQMYFDWGPGEMLVCETSFNKKEKSEMVPSCFFIYIIRKDVDVYSQILRKLFNES
HGIFLGLQRIDEELTGKSRKSQLVRVSKNYRSVIRACMEEMHQVAIAAKDPANGRQFSSQVSILSAMELIWNLCE
ILFIEVAPAGPLLLHLLDWVRLHVCEVDSLADVLGSENPSKHDSFWNLVTILVLQGRLEARQMLSKEADASPA
SAGICRIMGDLMRTPILSPGNTQTLTELELKWQHWHEECERYLQDSTFATSPHLESLLKIMLGDEAALLEQKEL
LSNWHFLVTRLLYSNPTVKPIDLHYAQQSSLDLFLGGESSPEPLDNILLAAFEFDIHQVIKECSIALSNWWFVA
HLTDLLDHCKLLQSHNLYFGSNMREFLLLEYASGLFAHPSLWQLGVDYFDYCPSELGRVSLELHIERIPLNTEQKA
LKVLRICEQRQMTEQVRSICKILAMKAVRNNRLGSALSWSIRAKDAAFATLVSDRFLRDYCEGCFSDLDLIDNL
GPAMMLSDRLTFLGKYREFHRMYGEKRFADAASLLLSLMTSRIAPRSFWMTLLTDALPLLEQKQVIFS AEQTYEL
MRCLEDLTSRRPVHGESDTEQLQDDDIETTKVEMLRLSLARNLARAI IREGSLEGS

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FIGURE 4957

GGTGCTGCTTGTGTGCTCGTTTGGTGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGACTCCGGCGC
TCGCCATGGCCGACGAAAAGCCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGG
GGCAGGATGGTTCTGTGGTGCAGTTTAAGATTAAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTG
AACGACAGGGATTGTCAATGAGGCAGATCAGATTCCGATTTGACGGGCAACCAATCAATGAAACAGACACACCTG
CACAGTTGGAAATGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGA
ACCTGCTTCTTTACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAACGCAATTTGGT
TCCACCACATCCTGACTACTACCGTATAGTTTTCTCTATTCTTTCAATTTCCCCCTTCCCCATTCTTTATTGTAC
ATAAAGTAACTGGTATATGTGCACAAGCATATTGCATTTTTTTTTTTTTTAACTAAACAGCCAATGGTATGTTTT
GATTGACATCAAGTGGAGACGGGATGGGGAAAAATACTGATTCTGTGAAAATACCCCTTTCTCCATTAGTGGCA
TGCTCATTAGCTCTTA

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FIGURE 4958

GCAGCGGAGCTTCGGCCTCGGCTCTGTACCATGAAGAAGGGCCCCAGTGGCTATGGCTTCAACCTGCACAGCGA
CAAGTCCAAGCCAGGCCAGTTCATCCGGTCAGTGGACCCAGACTCCCCGGCTGAGGCTTCAGGGCTCCGGGCCCCA
GGATCGCATTGTGGAGGTGAACGGGGTCTGCATGGAGGGGAAGCAGCATGGGGACGTGGTGTCCGCCATCAGGGC
TGGCGGGGACGAGACCAAGCTGCTGGTGGTGGACAGGGAACTGACGAGTTCTTCAAGAAATGCAGAGTGATCCC
ATCTCAGGAGCACCTGAATGGTCCCCTGCCTGTGCCCTTCACCAATGGGGAGATACAGAAGGAGAACAGTCGTGA
AGCCCTGGCAGAGGCAGCCTTGGAGAGCCCCAGGCCAGCCCTGGTGAGATCCGCCTCCAGTGACACCAGCGAGGA
GCTGAATTCCCAAGACAGCCCCCAAACAGGACTCCACAGCGCCCTCGTCTACCTCCTCCTCCGACCCCATCCT
AGACTTCAACATCTCCCTGGCCATGGCCAAAGAGAGGGGCCACCAGAAACGCAGCAGCAAACGGGGCCCCGCAGAT
GGACTGGAGCAAGAAAAACGAACTCTTCAGCAACCTCTGAGCGCCCTGCTGCCACCCAGTGACTGGCAGGGCCGA
GCCAGCATTCCACCCACCTTTTTCTTCTCCCAATTACTCCCCTGAATCAATGTACAAATCAGCACCCACATC
CCCTTTCTTGACAAATGATTTTTCTAGAGAACTATGTTCTTCCCTGACTTTAGGGAAGGTGAATGTGTTCCCGTC
CTCCCGCAGTCAGAAAGGAGACTCTGCCTCCCTCCTCCTCACTGAGTGCCTCATCCTACCGGGTGTCCCTTTGCC
ACCCTGCCTGGGACATCGCTGGAACCTGCACCATGCCAGGATCATGGGACCAGGCGAGAGGGCACCCCTCCCTTCC
TCCCCCATGTGATAAATGGGTCCAGGGCTGATCAAAGAACTCTGACTGCAGAACTGCCGCTCTCAGTGGACAGGG
CATCTGTTACCCTGAGACCTGTGGCAGACACGTCTTGTTTTTCATTTGATTTTGTAAAGAGTGCAGTATTGCAGA
GTCTAGAGGAATTTTGTTCCTTGATTAACATGATTTTCTGGTTGTTACATCCAGGGCATGGCAGTGGCCTCA
GCCTTAAACTTTTGTTCCTACTCCACCCCTCAGCGAACTGGGCAGCACGGGGAGGGTTTGGCTACCCCTGCCCAT
CCCTGAGCCAGGTACCACCATTGTAAGGAAACACTTTCAGAAATTCAGCTGGTTCCTCCAAACC

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FIGURE 4959

MSADAAAGAPLPRLCCLEKGPNGYG FHLHGEKGKLGQYIRLVEPGSPA EKAGLLAGDRLVEVNGENVEKETHQQV
VSRIRAAALNAVRLLVVDPETDEQLQKLG VQVREELLRAQEAPGQAEPPAAA EVQGAGNENEPREADKSHPEQREL
RPRLCTMKKGPSGYGFNLHSDKSKPGQFIRSVDPDSPAEASGLRAQDRIVEVNGVCM EKGQHGDVVS AIRAGGDE
TKLLVVDRETDEFFKKCRVIPSQEHLNGPLPVPFTNGEIQKENSREALAEAALES PRPALVRSASSDTSEELNSQ
DSPPKQDSTAPSSSTSSDPILDFNISLAMAKERAHQKRSSKRAPQMDWSKKNELFSNL

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FIGURE 4960

CGCCCAGCAGCCCCGTGGGCAGGCGCGGCGGAGCGAGCGGGGCCGCGGGCGCGCCGAGGGACGCCGAGGCCTCG
GGCGGGGGCTGGCCCCGGGGTTCCAGGTCTCCAGTGGGGGCTGCAGACTAAGCAAAATGAGGCGGTTCTTGAGGCC
AGGGCATGACCCTGTGCGGGAGAGGCTCAAGCGGGACCTGTTCCAGTTTAAACAAGACGGTGGAGCATGGCTTCCC
GCACCAGCCCAGCGCCCTCGGCTACAGCCCGTCCCTGCACATCCTGGCCATCGGCACCCGTTCTGGAGCCATCAA
GCTCTACGGAGCCCCAGGCGTGGAGTTTCATGGGGCTGCACCAGGAGAAACAACGCTGTGACGCAGATCCACCTCCT
GCCCCGCCAGTGCCAGCTGGTACCCCTGCTGGATGACAACAGCCTGCACCTTTGGAGCCTGAAGGTCAAGGGCGG
GGCATCGGAGCTGCAGGAGGATGAGAGCTTCACACTGCGTGGACCCCCAGGGGCTGCCCCAGTGCCACACAGAT
CACCGTGGTCTTGCCACATTCCTCCTGCGAGCTGCTCTACCTGGGCACCGAGAGTGGCAACGTGTTTGTGGTGCA
GCTGCCAGCTTTTCGTGCGCTGGAGGACCGGACCATCAGCTCGGACGCGGTGCTGCAGCGGTTGCCAGAGGAGGC
CCGCCACCGGCGTGTGTTTCGAGATGGTGGAGGCACTGCAGGAGCACCCCTCGAGACCCCAACCAGATCCTGATCGG
CTACAGCCGAGGCCTCGTTGTCTCTGGGACCTACAGGGCAGCCGCGTGTCTTACCCTTCTCAGCAGCCAGCA
ACTGGAGAACATCTGGTGGCAGCGGGACGGCCGCTGCTCGTCAGCTGTCACTCTGACGGCAGCTACTGCCAGTG
GCCCGTGTCCAGCGAAGCCCAGCAACCAGAGUCCCTCCGCAGCCTCGTGCTTACGGTCCCTTTCTTGCAAAGC
GATTACCAGAATCCTCTGGCTGACCACTAGGCAGGGGTTGCCCTTACCCTTCTCCAGGGTGGCATGCCACGGGC
CAGCTACGGGGACCGCCACTGCATCTCAGTGATCCACGATGGCCAGCAGACGGCCTTCGACTTCACCTCCCGTGT
CATCGGCTTCACTGTCTCTACAGAGGCAGACCCTGCAGCCACCTTTGACGACCCCTATGCCCTGGTGGTGTCTGGC
TGAGGAGGAGCTGGTGGTGATTGACCTGCAGACAGCAGGCTGGCCACCGGTCCAGCTGCCCTACCTGGCTTCTCT
GCACTGTTCCGCCATCACCTGCTCTCACCACGTCTCCAACATCCCGCTGAAGCTGTGGGAGCGGATCATTGCCGC
CGGCAGCCGGCAGAACGCACACTTCTCCACCATGGAGTGGCCAATTGATGGTGGCACCAGCCTGACCCAGCCCC
ACCCAGAGGGACCTGCTGCTCACAGGGCACGAGGACGGCACGGTGCAGTCTTGGGATGCCTCGGGTGTCTGCCT
GCGGCTGCTCTACAACTCAGCACTGTGCGCGTGTTCCTCACCGACACGGACCCCAACGAGAACTTCAGTGCCCA
GGGCGAGGACGAGTGGCCCCACTCCGCAAGGTGGGCTCCTTTGACCCCTACAGTGATGACCCCGGCTGGGCAT
CCAGAAGATCTTCTCTGCAAGTACAGCGGCTACCTGGCTGTGGCAGGCACGGCAGGGCAGGTGCTGGTACTGGA
ACTGAATGACGAGGCAGCGGAGCAGGCTGTGGAGCAGGTGGAGGCCGACCTGCTGCAGGACCAAGAGGGCTACCG
CTGGAAGGGGCACGAGCGCCTGGCAGCCCGCTCAGGGCCCGTGCCTTTGAGCCTGGCTTTTCAGCCCTTCGTGTT
GGTGCAGTGTACGCCCCGGCTGTGGTACCTCCTTGGCCCTGCACTCTGAGTGGCGGCTCGTGGCCTTCGGCAC
CAGCCATGGCTTTGGCCTCTTTGACCACCAGCAGCGCGGCAGGTCTTTGTTAAGTGCACACTGCACCCAGTGA
CCAGCTGGCCTTGGAGGGGCCACTCTCCGCGTCAAGTCCCTCAAGAAAGTCCCTGCGTCAGTCATTCCGCCGGAT
GCGTCGGAGCCGGGTGTCCAGCCGGAAGCGGCACCCGGCTGGCCCCCAGGAGAGGCACAGGAGGGGAGTGCCAA
GGCTGAGCGGCCAGGCCTCCAGAACATGGAGCTGGCGCCTGTGCAGCGCAAGATCGAGGCTCGCTCGGCAGAGGA
CTCCTTACAGGCTTCGTCCGGACCCCTGTACTTTGCTGACACCTACCTGAAGGACAGCTCCCGGCACTGCCCTC
GCTGTGGGCTGGCACCAATGGGGGCACCATCTATGCCTTCTCCCTGCGTGTGCCCTCCCGCCGAGCGGAGAATGGA
TGAGCCTGTGCGGGCAGAGCAGGCCAAGGAGATCCAGCTGATGCACCGGGCGCGGTGGTGGGCATCCTGGTGTCT
CGACGGACACAGCCTACCCCTTCCCGAGCCCTCGAAGTGGCCCATGATCTGTGAAGAGCCCTGACATGCAGGG
AAGCCACCAGCTGCTCGTCGTATCAGAGGAGCAGTTCAAGGTGTTACGCTGCCCAAGGTGAGTGCCAAGCTGAA
GTTGAAGCTGACGGCCCTGGAGGGCTCAAGAGTGCGGCGGGTCAGCGTGGCCCACTTCGGCAGTCGTGAGCCGA
GGACTACGGGGAGCACCACTGGCAGTCCCTTACCAACCTGGGCGACATCCAGGTGGTCTCGCTGCCCTGCTCAA
GCCCCAGGTGCGCTACAGCTGCATCCGCCGGGAGGACGTAGTGGCATCGCCTCCTGCGTCTTACCAAATATGG
CCAAGGCTTCTACCTGATCTCACCTCGGAGTTTGAGCGCTTCTCTCTCTCCACCAAGTGGCTGGTGGAGCCCCG
GTGTCTGGTGGATTACAGCAGAAACCAAGAACCACCGCCCTGGTAACGGTGCGGGCCCCAAGAAGGCCCCGAGCCG
AGCCAGGAACCTCAGGGACTCAGAGTGATGGCGAGGAGAAGCAGCCCGGCCTGGTGATGGAGCGCGCTCTGCTCAG
TGATGAGAGAGCGGCAACTGGCGTTACATCGAGCCGCGTGGGGTGCAGCCTCAGCAATGGCGGAGCAGAGTGA
GTGGCTGAGCGTCCAGGCTGCGCGATGAGCACACACTACTACTGATGGCCTTTTCGGGGGTCCCTGCCCAACCGG
AGAGCCGGTGCACAGGGCCCCGCCAGGGGCTGGGGGATCCCGGCTTCCACAATGCAGCTGCTCTGGGCCTCGG
GAGAGGAGAGACCCAGTCCCTTGGGCTGCCCTTCCCGGCGCTCGTCTGTCTGGGTCCCTTTGGTCAATGTTGCAC
AGTTTTTATTGCTCCCATCCCTTTTGTAGTGGGCTGGGTTTTAAGTTATAAATGTTAACTGCCCTCTGGGTGAAA
AAGTTTTTAATAAACACCTATTACCTCTTG

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FIGURE 4961

MRRFLRPGHDPVRERLKRDLFQFNKTVEHGFPHQPSALGYSPSLHILAIGTRSGAIKLYGAPGVEFMGLHQENNA
VTQIHLLPGQCQLVTLLDDNSLHLWSLKVKGASELQEDSFILRGPPGAAPSATQITVVLPHSSCELLYLGTES
GNVFFVQLPAFRALEDRTISSDAVLQRLPEEARHRRVFEMVEALQEHPRDPNQILIGYSRGLVVIWDLQGSRLVLY
HFLSSQQLENIWWQRDGRLLVSCHSDGSYCQWPVSSEAQQPEPLRSLVPYGFPPCKAITRILWLTTTRQGLPFTIF
QGGMPRASYGDRHCISVIHDGQQTAFDFTSRVIGFTVLTEADPAATFDDPYALVVLAEEELVVIDLQTAGWPPVQ
LPYLASLHCSAITCSHHVSNIPKLWERIIAAGSRQNAHFSTMEWPIDGGTSLTPAPPQRDLLLLTGHEGTVRFW
DASGVCLRLLYKLSTVRVFLTDTPNENFSAQGEDEWPPLRKVGSFDPYSDDPRLGIQKIFLCKYSGYLAVAGTA
GOVLVLELNDEAAEQAVEQVEADLLQDQEGYRWKGHERLAARSGPVRFEFGFQPFVLVQCQPPAVVTSALHSEW
RLVAFGTSHGFGFLFDHQRRQVFVKCTLHPSDQLALEGPLSRVKSLLKSLRQSFRMRMRSRVSSRKRHPAGPPGE
AQEGSAKAERPGLQNMELAPVQRKIEARSAEDSFTGFVRTLYFADTYLKDSSRHCPSLWAGTNGGTIYAFSLRVP
PAERRMDEPVRAEQAKEIQLMHRAPVVGILVLDGHSVPLPEPLEVAHDLSKSPDMQGSQLLLVSEEQFKVFTLP
KVSARKLKLKLTALEGSRVRRVSVAHFGSRRAEYGEHHLAVLTNLGDIQVVSLPLLKPQVRYSCIRREDVSGIAS
CVFTKYGGFYLIISPSEFERFSLSTKWLVPEPRCLVDSAETKNHRPGNGAGPKKAPSRARNSTQSDGEEKQPGLV
MERALLSDERAATGVHIEPPWGAASAMAEQSEWLSVQAAR

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FIGURE 4962A

GTGGGTTCTGCCTAAAGCTGAATTCCCAGCGCTTTGGCTTCTCTGAGTTGGGGTTGTGTATAGGGGTCTTCGAAC
AGTTCCGGAACCAGCCAGCAGCCTTTAATTCTTGGGCGGACCACGGCCGGTTCTGATATCTTAGGGTGAAGAGAG
GGAGGTGTCGGCCAGCCAAGAGAGAAAATTGCGGATCTTGGGCTCAGGAAGACGGGAGAAGGGGTTCCGGGTCCC
GGGGTGGAGAACGGTCGTCGTGGTTGCGCTTATAGAAGTAGGAGCAGAGGGTTCTCGTGGCAACCTTTTACTAC
CTTTGCCTTAACCCTTGGCCACTGTTCTTGGCTAAGATGAGCAGCCACCATAACCACCTTTCTTTTGACCCTGAG
CGGCGAGTCCGGAGTACGCTGAAGAAGGTCTTTGGGTTTGACTCTTTTAAGACGCCTTTACAGGAGAGTGCGACC
ATGGCTGTAGTAAAAGGTAACAAGGACGTCTTTGTGTGCATGCCACAGGGGCAGGAAAATCCCTATGCTATCAG
CTCCCTGCTCTGTTGGCCAAAGGCATCACCATTGTAGTCTCTCTCTCATTGCTTTGATTACAGGACCAAGTGGAC
CACTTGCTAACCCTAAAGGTACGAGTAAGTTCCCTGAACTCGAAGCTCTCTGCACAGGAAAGGAAGGAGCTGCTT
GCTGACCTGGAGCGAGAAAAGCCCCAGACCAAGATTCTGTACATCACCCCAGAGATGGCAGCTTCATCCTCCTTC
CAGCCCACCTGAACTCCCTGGTGTCCCGCCACCTGCTGTCTTACTTGGTGGTGGATGAAGCTCATTGTGTTTCC
CAATGGGGGCATGACTTTCTGCTGACTACTTGCCTGCTGGGTGCCCTGCGCTCCCGCCTGGGACATGCCCTTGT
GTGGCTCTGACCGCCACAGCCACCCCACAGGTCCAAGAGGACGTGTTTGTGCTGCCCTGCACCTGAAGAAACCAGTT
GCCATCTTCAAGACTCCCTGCTTCCGGGCCAACCTCTTCTATGATGTGCAATCAAGGAAGTATTCTGATCCC
TATGGGAACCTGAAGGACTTCTGCCTTAAGGCTCTTGGACAGGAGGCTGATAAAGGGTTATCTGGCTGCGGCATT
GTGTACTGCAGGACTAGAGAGGCTTGTGAACAGCTGGCCATAGAGCTCAGCTGCAGGGGTGTGAACGCCAAGGCT
TACCATGCAGGGCTGAAGGCCTCTGAAAGAACGCTGGTGCAGAACGACTGGATGGAGGAGAAGGTCCCTGTAATT
GTTGCAACCATTAGTTTTGGGATGGGAGTGGATAAAGCCAATGTGAGGTTGTGCGCCATTGGAATATTGCCAAG
TCTATGGCTGGGTACTACCAGGAGTCTGGCCGGGCTGGCAGGGATGGGAAGCCTTCCTGGTGCCGTCTCTATTAC
TCCAGGAATGACCGGGACCAAGTCAGCTTCCTGATCAGGAAGGAAGTAGCAAACTCCAGGAAAAGAGAGGAAAC
AAAGCATCTGATAAAGCCACTATCATGGCCTTTGATGCCCTGGTGACCTTCTGTGAAGAACTGGGGTGCCGCCAT
GCCGCCATTGCCAAGTACTTCGGGGATGCGCTGCCTGCCTGCGCCAAAGGCTGCGACCACTGCCAGAACCCACG
GCCGTGCGGAGGCGGCTGGAGGCCTTGGAGCGCAGCAGCAGCTGGAGCAAGACCTGCATCGGGCCCTCCAGGGG
AACGGCTTTGACCCCGAGCTGTATGAGGGAGGCGCAAGGGCTACGGGGACTTCAGCAGGTATGACGAAGGTTCT
GGAGGCAGCGGGGATGAAGGCAGAGATGAGGCCACAAGCGGGAGTGGAACTCTTCTATCAGAAGCAGATGCAG
CTGCGCAAGGGCAAAGACCCCAAGATAGAAGAATTTGTACCCCAAGATGAGAACTGTCCCTGAAAGAGGCTTCT
AGCAGGAGGATCCCCAGGCTGACTGTGAAGGCACGGGAGCACTGCCTGCGGCTTCTGGAGGAGGCGCTGAGCAGC
AACCGCCAGTCAACACGTACCGCTGATGAAGCTGACCTCCGGGCCAAGGCCGTGGAGCTGGAACATGAGACATTC
CGGAACGCCAAGGTGGCCAACCTCTACAAGGCCAGCGTGCTGAAGAAGGTGGCCGATATCCACAGAGCCTCCAAG
GATGGGCAGCCCTATGACATGGGAGGCAGTGCCAAGAGCTGCAGTGCCCAAGCTGAGCCCCCGGAGCCCAATGAG
TATGACATTCCACCAGCCTCCCATGTGTACTCGCTCAAACCCAAGCGGGTGGGAGCTGGTTTTCCCCAAAGGCTCC
TGCCCGTTCCAGACGGCCACGGAAGTATGGAGACAACCTCGGATCAGGGAGCAAGCCCCCAGCCCCAGCGGGGA
GGCGAGCACGAGCCCCGAGCCGSCCTGTGGCTCCTGGATGAGGATGGGAGTGAGCCCCCTCCCTGGGCCCAGA
GGGAGGTCCCTGGAGGCAGCGCTCACTATGGGGGGCCCTCCCTGAGAAGAAGGCAAAAAGTTCCCTCTGGGGGC
AGCTCCCTTGCCAAGGGCCGGGCTAGCAAGAAACAGCAGCTCCTAGCCACAGCGGCCCAAGGATTCTCAGAGC
ATCGCCCGCTTCTTCTGCCGAAGGGTGGAAAGCCAGCTCTGCTGGCATCAGCCCCAGAGGCAGAAGGTGCCTGC
CCCTCCTGTGAGGGGGTTTACGGGACCCCGATGGCCCCAGAGAAGTACACAGGGGAGGAAGATGGAGCCGGGGGA
CATTGCTGCTGCCCCCTCCCCAGACTGAGGAGTGCTCAGGGAGAGGCCAAGCACCTGCCCCGCCAGAGACCAGGGC
ACCCCTGAAGTCCAGCCACCCCTGCAAAGGACACATGGAAGGGCAAGCGGCCTCGATCCAGCAGGAGAACCCA
GAGAGCCAGCCTCAGAAGAGGCCACGCCCCCTCAGCCAAGCCCTCCGTCTGATGCTGAGGTCAAGGGCAGCGTCTCG
GCCAGCGAACAGGGCACCTTGAATCCCACGGCTCAAGACCCCTTCCAGCTCTCCGCTCCTGGCGTCTCCTTGAAG
GAGGCTGCAATGTTGTGGTCAAGTGCCCTCACCCCTTCTACAAGGAGGGCAAGTTTGCTTCCAAGGAGTTGTTT
AAAGGCTTTGCCCGCCACCTCTCACACTTGCTGACTCAGAAGACCTCTCCTGGAAGGAGCGTGAAAGAAGAGGCC
CAGAACCTCATCAGGCATTTCTTCCATGGCCGGGCCCCGGTGCAGAGCGAAGCTGACTGGCATGGCCTGTGTGGC
CCCCAGAGATGACCAACTGCTGGCTGGGCAGGGCCCCGCTCCTCCCCAGATTCTAGCATGGGTCTATCCTGGGCC
TCACCTGCTGATGCCAGGGCCATCGTCTTTTCTCAGTCTTCTCCTTTCCAACCATACTTGGCTTTGGGGATGAC
CCCAGACACCCCTGAATCCAGGTGAGAGGTGAGCCACCTTTCTTTCTGCTTGAAAGCCTATAGACCCCTTCTC
AGAGCGGTCTCATGGCTGGGTTTTCTGGGACACATGTGAGGACAGAAGGTGGAGGGTGGTGGAGCTGCTGCTG

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FIGURE 4962B

GAAGAAGGGGAAGGAAGAGTGGCCCCCTCCCCGAGTTCTAAGTCAGGATGAGGCCCACCTGTCCAAGGTATCGGAA
CCTACCCAGGGGACCCTCAGATCCTCCACCCACTCCCCCATCCATTACGATGCCAGCTTCCAGCCTTGCCCAGGT
CAGAGCTGTGGCAGAGGAGAGGCAGCCAGGCCCTGTTCTGCTCAGCTCCTGCTCAGGAAGGCCAGGCCTGACAG
ATGTTTGGGAGAGGAATAAAGTTGTGTTGTTGTGGGGCATGCAGGCGTGCACAC

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FIGURE 4963A

GCGCTGCCCCGCTCGTCCCCACCCCCCAACCCCCGCGCCCGCCCTCGGACAGTCCCTGCTCGCCCGCGCGCTGC
AGCCCCATCTCCTAGCGGCAGCCAGGCGCGGAGGGAGCGAGTCCGCCCCGAGGTAGGTCCAGGACGGGCGCACA
GCAGCAGCCGAGGCTGGCCGGGAGAGGGAGGAAGAGGATGGCAGGGCCACGCCCCAGCCCCATGGGCCAGGCTGCT
CCTGGCAGCCTTGATCAGCGTCAGCCTCTCTGGGACCTTGGAACCCGCTGCAAGAAGGCCCCAGTGAAGAGCTG
CACGGAGTGTGTCCGTGTGGATAAGGACTGCGCCTACTGCACAGACGAGATGTTTCAAGGACCGGCGCTGCAACAC
CCAGGCGGAGCTGCTGGCCCGGGCTGCCAGCGGGAGAGCATCGTGGTCATGGAGAGCAGCTTCCAAATCACAGA
GGAGACCCAGATTGACACCACCTGCGGCGCAGCCAGATGTCCCCCAAGGCCTGCGGGTCCGTCTGCGGCCCGG
TGAGGAGCGGCATTTTGTAGCTGGAGGTGTTTGTAGCCACTGGAGAGCCCCGTGGACCTGTACATCCTCATGGACTT
CTCCAATCCATGTCCGATGATCTGGACAACCTCAAGAAGATGGGGCAGAACCTGGCTCGGGTCCGTCTGCGGCCCGG
CACCAGCGACTACACTATTGGATTGGCAAGTTTGTGGACAAAGTCAGCGTCCCGCAGACGGACATGAGGCCTGA
GAAGCTGAAGGAGCCCTGGCCCAACAGTGACCCCCCTTCTCCTTCAAGAAGCTCATCAGCCTGACAGAAGATGT
GGATGAGTTCCGGAATAAACTGCAGGGAGAGCGGATCTCAGGCAACCTGGATGCTCCTGAGGGCGGCTTCGATGC
CATCCTGCAGACAGCTGTGTGCACGAGGGACATTGGCTGGCGCCCGGACAGCACCCACCTGCTGGTCTTCTCCAC
CGAGTCAGCCTTCCACTATGAGGCTGATGGCGCCAACGTGCTGGCTGGCATCATGAGCCGCAACGATGAACGGTG
CCACCTGGACACCACGGGCACCTACCCAGTACAGGACACAGGACTACCCGTGCGGTGCCCCACCTGGTGCGCCT
GCTCGCCAAGCACAAACATCATCCCCATCTTTGCTGTACCAACTACTCCTATAGCTACTACGAGAAGCTTCACAC
CTATTTCCCTGTCTCCTCACTGGGGGTGCTGCAGGAGGACTCGTCCAACATCGTGGAGCTGCTGGAGGAGGCCTT
CAATCGGATCCGCTCCAACCTGGACATCCGGGCCCTAGACAGCCCCGAGGCCTTCGGACAGAGGTCACCTCCAA
GATGTTCCAGAAGACGAGGACTGGGTCTTTACATCCGGCGGGGGGAAGTGGGTATATACCAGGTGCAGCTGCG
GGCCCTTGAGCACGTGGATGGGACGCACGTGTGCCAGCTGCCGGAGGACCAGAAGGGCAACATCCATCTGAAACC
TTCTTTCTCCGACGGCCTCAAGATGGACGCGGGCATCATCTGTGATGTGTGCACCTGCGAGCTGCAAAAAGAGGT
GCGGTGAGCTCGCTGCAGCTTCAACGGAGACTTCGTGTGCGGACAGTGTGTGTGCAGCGAGGGCTGGAGTGGCCA
GACCTGCAACTGCTCCACCGGCTCTCTGAGTGACATTAGCCCTGCCTGCGGGAGGGCGAGGACAAGCCGTGCTC
CGGCCGTGGGGAGTGCCAGTGCGGGCACTGTGTGTGCTACGGCGAAGGCCGCTACGAGGGTCAGTTCTGCGAGTA
TGACAACTTCCAGTGTCCCCGCACTTCCGGGTTCTGTGCAATGACCGAGGACGCTGCTCCATGGGCCAGTGTGT
GTGTGAGCCTGGTTGGACAGGCCCAAGCTGTGACTGTCCCCTCAGCAATGCCACCTGCATCGACAGCAATGGGGG
CATCTGTAATGGACGTGGCCACTGTGAGTGTGGCCGCTGCCACTGCCACCAGCAGTCGCTCTACACGGACACCAT
CTGCGAGATCAACTACTCGCGATCCACCCGGGCTCTGCGAGGACCTACGCTCCTGCGTGCAGTGCCAGGCGTG
GGGACCCGGCGAGAAGAAGGGGCGCACGTGTGAGGAATGCAACTTCAAGGTCAAGATGGTGGACGAGCTTAAGAG
AGCCGAGGAGGTGGTGGTGCCTGCTCCTTCCGGGACGAGGATGACGACTGCACCTACAGCTACACCATGGAAGG
TGACGGCGCCCCCTGGGCCCAACAGCACTGTCTCCTGGTGCAAGAAGAAGGACTGCCCTCCGGGCTCCTTCTGGTG
GCTCATCCCCCTGCTCCTCCTCCTGCGGCTCCTGGCCCTGCTACTGCTGCTATGCTGGAAGTACTGTGCCTG
CTGCAAGGCCTGCCTGGCACTTCTCCCGTGTGCAACCGAGGTACATGGTGGGCTTTAAGGAAGACCACTACAT
GCTGCGGGGAGAACCTGATGGCCTCTGACCACTTGGACACGCCCATGCTGCGCAGCGGGAACCTCAAGGGCCGTGA
CGTGGTCCGCTGGAAGGTACCAACAACATGCAGCGGCCTGGCTTTGCCACTCATGCCGCCAGCATCAACCCAC
AGAGCTGGTGCCCTACGGGCTGTCTTGGCCTGGCCCGCTTTGCACCGAGAACCTGCTGAAGCCTGACACTCG
GGAGTGCGCCAGCTGCGCCAGGAGGTGGAGGAGAACCTGAACGAGGTCTACAGGCAGATCTCCGGTGTACACAA
GCTCCAGCAGACCAAGTTCCGGCAGCAGCCCAATGCCGGGAAAAAGCAAGACCACACCATTTGTGGACACAGTGCT
GATGGCGCCCCGCTCGGCCAAGCCGGCCCTGCTGAAGCTTACAGAGAAGCAGGTGGAACAGAGGGCCTTCCACGA
CCTCAAGGTGGCCCCCGGCTACTACACCCTCACTGCAGACCAGGACGCCCGGGGCATGGTGGAGTTCCAGGAGGG
CGTGGAGCTGGTGGACGTACGGGTGCCCCCTTTTATCCGGCCTGAGGATGACGACGAGAAGCAGCTGCTGGTGG
GGCCATCGACGTGCCCGCAGGCACTGCCACCCTCGGCCGCCGCTGGTAAACATCACCATCATCAAGGAGCAAGC
CAGAGACGTGGTGTCTTTGAGCAGCCTGAGTTCTCGGTGAGCCGCGGGGACCAGGTGGCCCGCATCCCTGTCTAT
CCGGCGTGTCTGGACGGCGGGAAGTCCAGGTCTCCTACCGCACACAGGATGGCACCGCGCAGGGCAACCGGGA
CTACATCCCCGTGGAGGGTGTGCTGTTCCAGCCTGGGGAGGCCTGGAAAGAGCTGCAGGTGAAGCTCCTGGA
GCTGCAAGAAGTTGACTCCCTCCTGCGGGGCCGCCAGGTCCGCCGTTTCCACGTCCAGCTCAGCAACCCTAAGTT
TGGGGCCCCACCTGGGGCAGCCCCACTCCACCACCATCATCATCAGGGACCCAGATGAACTGGACCGGAGCTTCAC
GAGTCAGATGTTGTATCACAGCCACCCCTCACGGCGACCTGGGCGCCCCGAGAACCCCAATGCTAAGGCCG

FIGURE 4963B

[illegible]

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FIGURE 4964

MAGPRPSPWARLLLAALISVSLSGTLANRCKKAPVKSCTECVRVDKDCAYCTDEMFRDRRCNTQAEELLAAGCQRE
SIVVMESSFQITEETQIDTTLRRSQMSPQGLRVLRPGEERHFELEVFEPLSPVDLYILMDFSNSMSDDLDNLK
KMGQNLARVLSQLTSDYTIGFGKFVDKVSVPQTDMRPEKLKEPWPNSDPPFSFKNVISLTEDVDEFNRKLQGERI
SGNLDAPEGGFDAILQTAVCSTRDIGWRPDSTHLLVFSTESAFHYEADGANVLGIMSRNDERCHLDTTGTYTQYR
TQDYPSVPTLVRLAKHNIIPFAVTNYSYSYIEKLHTYFPVSSSLGVLQEDSSNIVELLEAFNRIRSNLDIRAL
DSPRGLRTEVTSKMFQKTRTGSFHIRRGEVGIYQVQLRALEHVDGTHVCQLPEDQKGNHKLKPSFSDGLKMDAGI
ICDVCTCELQKEVRSARCSFNDFVCGQCVCSEGWGQTCNCSTGSLSDIQPCLREGEDKPCSGRGECQCGHCVC
YGEGRYEGQFCEYDNFQCPRTSGFLCNDGRGRCSMGQCVCEPGWTGPSCDCPLSNATCIDSNGGICNGRGHCCEGR
CHCHQQSLYTDITICEINYSAIHPGLCEDLRSCVQCQAWGTGEKKGRTCEEENFKVKMVDLKRAREEVVRCSEFRD
EDDDCTYSYTMEDGAPGNSTVLVHKKKDCPPGSFWWLIPLLLLLLLPLALLLLLLLCKWYCACCKACLALLPCCN
RGHVMGFKEDHYMLRENLMASDHLDTPMLRSGNLKGRDVVRWKVTNNMQRPGFATHAASINPTLVYPGLSLRLA
RLCTENLLKPDTRCAQLRQEVEENLNEVYRQISGVHKLQQTFRQOPNAGKKQDHTIVDTVLMAPRSAPKALLK
LTEKQVEQRAFHDLVAPGYTTLTADQDARGMVEFQEGVELVDVRVPLFIRPEDDDEKQLLVEAIDVPAGTATLG
RRLVNITIIKEQARDVVSFEQPEFSVSRGDQVARIPVIRRVLDGGKSQVSYRTQDGTAGQNRDYIPVEGELLFQP
GEAWKELQVKLLELQEVDSLLRGRQVRRFHVQLSNPKFGAHLGQPHSTTIIIRDPELDRSFTSQMLSSQPPPHG
DLGAPQNPNAKAAGSRKIHFNWLPPSGKPMGYRVKYWIIQGDSESEAHLLDSKVPVELTNLYPYCDYEMKVCAYG
AQGEGPYSSLVSCRTHQEVPSGPRLAFNVVSSTVTQLSWAEPATNGEITAYEVCYGLVNDNRPIGPMKKVLV
DNPKNRMILLIENLRESQPYRYTVKARNGAGWGPAREAIIINLATQPKRPM SIP IIPDIIVDAQSGEDYDSFLMYS
DDVLRSPSGSQRPVSDDTGCGWKFEPLLEELDRLRRVTWRLPPELIPRLSASSGRSSDAEAPTAPRTTAARAGR
AAAVPRSATPGPPGEHLVNGRMDFAFPGSTNSLHRMTTTSAAAYGTHLSPHVPHRVLSTSSSTLTRDYNLSLRSEH
SHSTTLPRDYSTLTSVSSHDSRLTAGVPDTPTRLVFSALGPTSLRVSWQEPRCERPLQGYSEYQLLNGGELHRL
NIPNPAQTSVVVEDLLPNHSYVFRVRAQSQEGWGREREGVITIESQVHPQSPLCPLPGSAFTLSTPSAPGPLVFT
ALSPDSLQLSWERPRRPNGDIVGYLVTCEMAQGGGPATAFRVDGDSPESTRITVPGLSENVFYKFKVQARTTEGFG
PEREGIIITIESQDGGFPFQLGSRAGLFQHPLQSEYSSITTTHTSATEPFLVDGLTLGAQHLEAGGSLTRHVTQEF
VSRTLTTSGLSTHMDQFFQT

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FIGURE 4965A

CAAGGGGCCAGGACCCTGAGTTTTATTGGGCCCTTGACTAATGTGCCTCCTCATCTGTGTCTCACCTCATTGTG
GACTTAGGTTTTAGGTATCTCAGAGGCAGACCCACAGGCTCTGCTCCAGGCCATGAAGGACCTGGACGGCATGGA
TGCTGATATCTTAGGTCTGAAGAAATCTAATTACAGCCCCTAGCAAAAAGCTGCAAAGGACCTGGGAAAGGAGA
GCTGCCCCAACCAACCCCAAGCCTGCAGGGGGTGCCATTCCCACCAAGAAGTCACTCCGTCTCCAGCAGCTCTGG
GCATCAGAAACAGGAGGTTTTCTCTGAAGACTTGGAAGACCCATTGAGAGGACTTCTCTCTATGATGAAGGAGG
AATCACCAAGCAGCCGCCTGTGACACAGAGTAAAACAGCTTCTGACAAGAGCCCCAGCACAGTGAGAGATCAAGG
TCCCTCTATTCTCTAACTCCTGGGGACACCCCCATCCGAAAAAAGAAGAATTGTTGTTTGATGATGGGGATGA
CATCATGGCCACCTTGGGGTTTGGAGACAGCCCCAAAGCAGAGAAGAGGCAGATAGGAGACCAGGAAGGGCCTCG
CCCTGCTCGCTCCACGCTGGATGAGCTGCTGGGTCGAGGCATGGCCACCAAACCTCTGGCCCCGCCGGGCACCGG
GGAGCACAGGGAGTTCAAGCTAGACAAGAAGTACCAGAGGCCACAGGACAGTGAAGATATGTGGGGTGACGAGGA
CTTCACCTTTGGAGCCTATCAGCCCACTGTGGTCTCTCTGAGGGCCGGCAGTCCC GCCGGCAGTCTGTCTAGTAG
GTTCTTCGACAGCAGTGGCGCAGACCCCAAGGGAGAACCAGGCTCCAAACAGAGCCCTCCATGGCTTCAGCCC
CATCCAGCCCAGGAAGGGAGGAGCTGACTGGTTGGGCCTCAAGGACGAGGACTTGGACCTGTTCCCTGCCTCACC
CACCAGAGAGGCCCATCGGGAAAGTTCAAGTGCCTGTACGCCCTCAGTGCCTCCTCCTGCGAGCCAGCACTCCAC
GCCAGCTGGGCTGCCCCCTCCAGGGCAAAGCCACCAACTGAAGGTGCAGGGTCCCCTGCCAAAGCCAGCCAGGC
TTCCAAGCTGCGAGCCTCCAAGGAGGAGAAAGAGGACTGGCTGAGCCATGCCCTGTCTCGGAAGAAGTCCCAAGG
CCTGGCCAGAGAGCAGCATGCTGGGACCTCTGAGGGCCTGCATTTGGCGGGGACAGCGGGCCATCCCCCTTCTGG
CAGCCTGACCTGGGCCTTCTGTACCTTACCTTGAACGCTGCCTTTCTCAGCCAACCTCTCACCAGCACACAA
GGGCTTGAGCACGCAGCTGCTGGAGGGAGTTCTGGAACAACCTGCACGAGAAAGACCGTGTGTGAGGCTGGTGTG
TCGGGGTCCCCTGTGACTCAGAACCATGCCGCCTCAGCACTCCCTACAGGTTCCCCAAAGAGGGGAACAGCCCT
GGAGACCTCTCAGCCACTGAGCCTGCCACGTGTTTCCCAGCACCCAGAAACCCACAGAGCCTTCCGTGCCCGTC
CAGCCCCTGCTCCAGAGTCCCTGGCCCCGAGCCTGCTGCCGAGCACAGAATACCAGAAGCAGCTCCTGGCAGCA
CAGGTGCAACTTCAGTGCAGCCCCGCTGAGCTCCAGGCCGAGCTGCTGCATAGCCAGGCCCGGCTGGCAGAGCTG
GAGGCCAGGTGCGGAAGCTGGAGCTAGAACGGGCCAGCATGAGCTGCTGCTGGGGAGTCTGCAGCAGCAGCAC
CAGGCAGACCTGGAGCTCATCGAGAGTGACACAGAAGCCGCATCAAGGTGCTAGAAACATCGTACCAGCAACGG
GAGGAGCGGCTCCGGAGAGAGAACGAAGAGCTGTGAGCTCGGTATCTGTGCGAGTGCCAGGAGGCCGAACAGGCC
CGTGCTGAGCTTACGGCCCAGCACCGCGCTTGGCGGCCATAGCGCAGGAGAAGGACCAGGAAATGGAGCGG
CTCCGGGAGCTGCAGCGGGCGTCCATCCTAGACATGCGCAGAGACCACGAGGAGCAGCTGCAGCGGCTAAAGCTG
CTGAAGGACCGAGAGGTGATGCGGCCACCACTGCCACCTCCCACACACGGTCCCTGAATAGCATCATCCACCAG
ATGGAGAAGTTCTCCAGCAGCCTGCACGAGTTGTCTCCCGCTGGAGGCCTCGCACCTCACCACCTCCCAGGAG
CGGGAGCTGGGGATCCGGCAGCGTGACGAGCAGCTGCGGGGAGCGGCTGGGCCAGCAGCAGCGGGACATGGAGGA
GGAGCGGAGCCGGCAACAGGAGGTATCGGGAAGATGGAGGCACGGCTGAATGAGCAGAGCCGGCTGCTGGAGCA
GGAACGCTGGCGGGTGACTGCCGAGCAGTCCAAGCGGAGTCCATGCAGCGCGCCCTAGAGGAGCAAAGGAAGGT
CACGGCCCAGCAGATGGCCATGGAAAGGGCGGAGCTGGAACGGGCCAAGAGCGCCTTGCTGGAGGAGCAGAAGTC
TGTCATGCTCAAGTGCGGGGAGGAGCGGCGCGCTGGCTGCCGAGTGGGCGGAGTTCTCCGCGCAGCAAAAGCT
GAGAGCAGGCTGAGCTGAAGATCAGGGCCAGCGAGCTCCGGGCCGAGGAGAAGCAGCTGGCAGCGGAGAGAGCAG
CCCTGGAGCAGGAGCGGCAGGAGCTGCGGCTGGAGAAGGAGAGGATCAACGCCACCGCCCTGCGTGTCAAGCTCC
GCGCCGAGGAGGTGGAGAGCATGAGCAAGGTGGCCTCCGAGAAGTACGAGGAGGGGGAGCGGGCATTGCGCGAGG
CCCAGCAGGTGCAGGCAGAGCAGCAGGCCCGGTTGCAGGCGGTGCAGCAACAGCAGGAGCGGCTGCGGAAGCAGG
AGCAGCACATGCACCAGGAGCATCTGAGTCTGGCCCAGCAGAGGCTGCAACTGGACCGCGCACAGCAGGACCTGC
CCTCTAGCCTCGTGGGTCTGTTCCCCAGGGCCCCAGGGCCCTGCAGCCTCCAGCCAGAGTGCCTCATGCCTCCTG
CTCCCACCAACCGTTGGTGCAGCCAGCCGCCAACTGGCCTGGACCCAGCCCCCTTGACCTCCATGCCAGGCTGG
CACTGCTGAGGCACATGGCAGAGCAGCACCTGCGGTCTGCGGTGGCACCTGGCAGCTGGACCACAGCCAGGAGAA
GGGTACTATTAGCCCTGCTTCAAACATGCAGAACTGAGGCCCGGGGAGATTAAATAACCTGCCTGAAATGACAC
CGTCTGGGCCCGCCGGACACCCCCCTGGGGCCGATGCCAAACAGTGACATCGACTTGAGCAACCTGGAGCGGCT
GGAGAAGTACCGGAGCTTCGACCGCTACCGGCGCCGAGCAGAGCAGGAGGCGCAGGCCCGCACTGGTGGCGGAC
CTACCGAGAGTATTTGCGGGAGAAGACAGATCCCAAAGAGAAGATTGATATTGGGCTGCCTCCACCCAAAGTCTC
CCGACCCAAACAGCTACTGGAACGGAACAGGCCATCCAGGAGCTTCGGGCCAATGTGGAAGAGGAGCGGGCTGC

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FIGURE 4965B

CCGCCTCCGCACAGTGTCCCGCTGGATGCCGTGCGGGCCGAGTGGGAGAGGACCTGTGGCCCCTACCACAAGCAG
CGTCTGGCTGAGTATTACGGCCTCTACCGAGACCTGTTCCACGGTGCCACCTTTGTGCCCCGAGTCCCCCTGCAC
GTGGCCTACGCTGTGGGTGAGGATGACCTGATGCCTGTGTACTGTGGCAATGAGGTGACTCCAACCGAGGCTGCC
CAAGCGCCAGAGGTGACCTATGAGGCAGAAGAGGGCTCCTTGTGGACGTTGCTACTACTAGCTTGGATGGGCAC
CTGCTGGAGCCAGATGCTGAGTACCTCCACTGGCTGCTAACCAACATCCCGGGTAACCGGGTGGCTGAAGGACAG
GTGACGTGTCCCTACCTCCCCCCTTCCCTGCCCCGAGGCTCCGGCATCCACCGTCTTGCCCTCCTGCTCTTCAAG
CAGGACCAGCCGATTGACTTCTCTGAGGACGCACGCCCCTCACCTTGCTATCAGCTGGCCCAGCGGACCTTCCGC
ACTTTTGATTTCTACAAGAAACACCAAGAAACCATGACTCCAGCCGGCTTGTCCCTTCTTCCAGTGCCGCTGGGAT
GACTCCGTCACCTACATCTTCCACCAGCTTCTGGACATGCGGGAGCCGGTGTTTGAGTTCGTGCGGCCGC

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FIGURE 4966

MAPKTKKGCKVTLPEKPVKLASHTRDTTGVSQMFPSKARTKSLLGDDVFSTMAGLEEADAEVSGISEADPQALL
QAMKDLGMDADILGLKKSNSAPSKKAAKDPGKGELPNHPKPAGGAIPTKKSLSPPSSSGHQNRRFSSLEDPL
RGLLSYDEGGITKQPPVTQSKTASDKSPSTVRDQGPSIPLTPGDTPIRKKEELLFDDGDDIMATLGFGDSPKAEK
RQIGDQEGPRPARSTLDELLGRGMATKLLARPGTGEHREFKLDKKYQRPQDSEDMWGDEDFTFGAYQPTVVSSEG
RQSRQSVSRFFADSGADPKGEPGSKQSPPMASSPIQPRKGGADWLGLKDEDLDLFPASPTREAHRESSVPVTPS
VPPPASQHSTPAGLPPSRAKPPTGAGSPAKASQASKLRASKEEKEDWLSHALSRKKSQGLAREQHAGTSEGLHL
AGTAGHPPSGSQPLTSTQGLEHAAAGGSSGTTARERPCVRPGVSGSPVTQNHAAASALETGSPKRGTAPGDLSTATE
PATCFPSTQKPTEPSVPVQPLLPESLARSLLPSTEYQKQLLAAQVQLQCSPAELQAELLHSQARLAELEAQVRGS
GAVGAGGRVATGGDTESGWKLPQEGGRAVGTGQRGVQPPPLPGCWPSCLPGAEAGARTGPA

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FIGURE 4967

CCCGAGCATCCCGCGCCGACGGGGCTGTGCCGGAGCAGCTGTGCAGAGCTGCAGGCGCGCGTCA**ATG**GCTGCTTTG
AGACAGCCCCAGGTCGCGGAGCTGCTGGCCGAGGCCCGGCGAGCCTTCCGGGAGGAGTTCGGGGCCGAGCCCGAG
CTGGCCGTGTACAGCGCCGGGCCGCGTCAACCTCATCGGGGAACACACGGACTACAACCAGGGCCTGGTGCTGCCT
ATGGCTCTGGAGCTCATGACGGTGCTGGTGGGCAGCCCCGCAAGGATGGGCTGGTGCTCTCTCCTCACCACCTCT
GAGGGTGCCGATGAGCCCCAGCGGCTGCAGTTTCCACTGCCACAGCCCAGCGCTCGCTGGAGCCTGGGACTCCT
CGGTGGGCCAACTATGTCAAGGGAGTGATTCACTACTACCCAGCTGCCCCCTCCCTGGCTTCAGTGCACTGGTG
GTCAGCTCAGTGCCCCCTGGGGGGTGGCCTGTCCAGCTCAGCATCCTTGGAAGTGGCCACGTACACCTTCCTCCAG
CAGCTCTGTCCAGACTCGGGCACAACTAGCTGCCCCGCGCCAGGTGTGTACAGAGCCGAGCACAGCTTCGCAGGG
ATGCCCTGTGGCATCATGGACCAGTTCATCTCACTTATGGGACAGAAAGGCCACGCGCTGCTCATTGACTGCAGG
TCCTTGGAGACCAGCCTGGTGCCACTCTCGGACCCCCAAGCTGGCCGTGCTCATCACCAACTCTAATGTCCGCCAC
TCCCTGGCCTCCAGCGAGTACCCTGTGCGGCGGCGCCAATGTGAAGAAGTGGCCCGGGCGCTGGGCAAGGAAAGC
CTCCGGGAGGTACAACCTGGAAGAGCTAGAGGCTGCCAGGGACCTGGTGAGCAAAGAGGGCTTCGGCGGGCCCCGG
CACGTGGTGGGGGAGATTGGCGCACGGCCAGGCAGCGGCCGCCCTGAGACGTGGCGACTACAGAGCCTTTGGC
CGCCTCATGGTGGAGAGCCACCGCTCACTCAGAGACGACTATGAGGTGAGCTGCCCAGAGCTGGACCAGCTGGTG
GAGGCTGCGCTTGCTGTGCCTGGGGTTTATGGCAGCCGCATGACGGCGGTGGCTTCGGTGGCTGCACGGTGACA
CTGCTGGAGGCCTCCGCTGCTCCCCACGCCATGCGGCACATCCAGGAGCACTACGGCGGGACTGCCACCTTCTAC
CTCTCTCAAGCAGCCGATGGAGCCAAGGTGCTGTGCTTG**TG**AGGGACCCCCAGGACAGCACACGGTGAGGGTGCG
GGGCTGCAGGCCAGTCCCACGGCTCTGTGCCCGGTGCCATCTTCCATATCCGGGTGCTCAATAAACTTGTGCCT
CCAATGTGGTA

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FIGURE 4968

MAALRQPQVAELLAEARRAFREFGAEP ELAVSAPGRVNLIGEHTDYNQGLVLPMALELMTVLVGSPRKDGLVSL
LTTSEGADEPQRLQFPLPTAQRSLEPGTPRWANYVKGVIQYYPAAPLPGFSAVVVSSVPLGGGLSSSASLEVATY
TFLQQLCPDSGTIAARAQVCQQAHSFAGMPGIMDQFISLMGQKGHALLIDCRSLETSLVPLSDPKLAVLITNS
NVRHSLASSEYPVRRRQCEEVARALGKESLREVQLEEELEAARDIVSKEGFRRARHVVG EIRRTAQAAAALRRGDY
RAFGRLMVESHRSRDDYEVSCPELDQLVEAALAVPGVYGSRMTGGGFGGCTVTLL EASAAPHAMRHIQEHYGGT
ATFYLSQAADGAKVLCL

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FIGURE 4969

GGTCGTTTCGTTGGGCGGTGCTGGTTTTTCGCTCGTCGACTGCGGCTCTTCCTCGGGCAGCGGAAGCGGCGCGGGCG
GTCGGAGAAGTGGCCTAAAACCTTCGGCGTTGGGTGAAAGAAAATGCCCCGAACCAAGCAGACTGCTCGTAAGTCC
ACCGGTGGGAAAGCCCCCGCAAACAGCTGGCCACGAAAGCCGCCAGGAAAAGCGCTCCCTCTACCGGCGGGGTG
AAGAAGCCTCATCGCTACAGGCCCGGGACCGTGGCGCTTCGAGAGATTTCGTCGTTATCAGAAGTCGACCGAGCTG
CTCATCCGGAAGCTGCCCTTCCAGAGGTTGGTGAGGGAGATCGCGCAGGATTTCAAAACCGACCTGAGGTTTCAG
AGCGCAGCCATCGGTGCGCTGCAGGAGGCTAGCGAAGCGTACCTGGTGGGTCTGTTCGAAGATACCAACCTGTGT
GCCATCCACGCTAAGAGAGTCACCATCATGCCCAAAGACATCCAGTTGGCTCGCCGGATACGGGGAGAGAGAGCT
TAAGTGAAGGCAGTTTTATGGCGTTTTGTAGTAAATTCTGTAAATACTTTGGTTTAATTTGTGACTTTTTTTG
TAAGAAATTGTTTATAATATGTTGCATTTGTACTTAAGTCATTCCATCTTCACTCAGGATGAATGCGAAAAGTG
ACTGTTACAGACCTCAGTGATGTGAGCACTGTTGCTCAGGAGTGACAAGTTGCTAATATGCAGAAGGGATGGGT
GATACTTCTTGCTTCTCATGATGCATGTTTCTGTATGTTAATGACTTGTTGGGTAGCTATTAAGGTACTAGAGTT
GATAAATGTGTACAGGGTCCTTTTGCAATAAACTGGTTATGACTTGATCCAAGTGTTTAACAATTGGGGCTGTT
AAGTCTGACCATACATCACTGTGATAGAATGTTGGCTTTTTCAAGGGTGAAGATACAAGTCTTAACCACAGTGTA
ACTTACAGTTTCCTTTAAAAAAAAAAAAAGTAAACCTGGCAGCTATAGAATACACTATGTGCATTTATAATAGCT
ATTTTATATATTGTAGTATCAACATTTTTAAATTAAATGTTTTACATTACAAAGTGGTGGGGAGTCTTGTCATTA
AGGTGTGTGTAATTTAGAGTCCAGTTGGTTTTCTTCTGACTGCACCTGTTCTCATAGTAGTAAAATGCTATGCGC
ATTTATACCTTGATAAGTCCTCATTCTACCACATGTTAACCTCTAGCTGATAATGCAAACACTAACTGGGGGA
TTTTATTTATAAGGGCTCTAGAAAAACGAGTTATTACACCAGCATCATCTTAACCTAACATTCTGAACCTAGTTA
GTGCAGCTTTTTCATTGTGTGTGTGGTTGGTCTCATAACTAGGTTGAGTTTTTCTCCTCTGCTGAGGAAACAGTA
CCGAAGTTCTTTTTCTTGTGGCATTGTATTATAAAAACTTGGTGTGGGGGAGGAGCACAAAACCTCCAGCCCACT
GAACCTCTGCCAATTAAGATGGTGTGGGTTAGGTTACATCTGGTTACTGTCTGGGAAAATCATTTTTATAGAG
ATGGCCTTCCAAGTGGTTTTAAATTTACTGAAGTTTTTAGGTCAATTATGTATGTTGACTAAATTTACAAATAA
ACTTGTATATCC

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FIGURE 4970

MARTKQTARKSTGGKAPRKQLATKAARKSAPSTGGVKKPHRYRPGTVALREIRRYQKSTELLIRKLPFQRLVREI
AQDFKTDLRFSAAIGALQEASEAYLVGLFEDTNLCAIHAKRVTIMPKDIQLARRIRGERA

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FIGURE 4971A

GAAGAGGCAGGAAGACAAGACCATGTCGAAGGGCCCCGGGCCCCGGCGGCTCCGCAGCTTCCTCGGCGCCCCCGGC
CGCTACCGCTCAGGTGCTGCAGGCACAGCCCCGAGAAACCGCAGCACTACACGTACCTGAAAGAATTCCGCACAGA
GCAGTGCCCACTCTTTGTGCAACACAAATGCACGCAGCATCGGCCCTACACCTGCTTCCACTGGCACTTCGTGAA
CCAGCGGGCGCCCGGCTCCATCCGCCGTGCGGACGGCACCTTCAATTACAGCCCTGACGTCTACTGCACCAAGTA
CGACGAGGCTACAGGCCTCTGCCCCGAGGGCGACGAGTGCCCATTCCTGCACAGAACCACAGGGGACACTGAGCG
CAGGTACCACCTTCGTTACTACAAAACCTGGAATCTGCATCCACGAGACAGACTCGAAAGGCAACTGCACCAAAAA
CGGCCTGCACTGCGCTTTTGGCCACGGGCCCCATGACCTCCGCTCCCCTGTCTACGACATCAGGGAGCTTCAGGC
CATGGAGGCCTTGAGAATGGCCAGACCACGGTAGAGGGGAGCATAGAGGGCCAGTCGGCTGGGGCTGCGAGCCA
TGCCATGATAGAAAAGATCCTCAGCGAGGAGCCTCGGTGGCAAGAGACTGCTTATGTGCTGGGGAAGTATAAGAC
GGAGCCTTGCAAGAAGCCCCCGGGCTGTGCGGCCAAGGCTATGCCTGTCCCTACTACCACAACAGCAAGGACCG
GCGGCGGAGCCCCCGGAAGCACAAATACAGGTGCTCTCCATGTCCAAACGTCAAGCACGGGGATGAGTGGGGAGA
CCCTGGCAAGTGTGAGAACGGAGACGCCTGCCAGTACTGCCACACCCGCACCGAGCAGCAGTTCCACCCCGAGAT
CTACAAGTCCACCAAGTGAACGACATGCAGCAGTCGGGCAGCTGTCCCCGAGGACCCCTTCTGCGCCTTTGCCCA
CGTAGAACAGCCACCCCTGAGTGACGACCTGCAGCCTTCCTCAGCTGTGTCCAGCCCCACCCAGCCAGGTCTGT
CCTGTACATGCCATCTGCCGCCGGAGACTCGGTGCCTGTGAGCCCCCTCAGCCCCGATGCCCCCTGACCTCAGTGC
CCTCCTCTGTAGAAACAGCAGCCTAGGCAGCCCCGTCTAACCTCTGCGGCTCCXCCACCGGGCTCCATCAGGAAGC
CCCCAAACCTGGAGGGCATCGTCTTCCCTGGGGAGTCTGGCCTGGCCCCCTGGCAGCTATAAGAAAGGCTCCCGGCT
TCGAGAGGGAAGACCAGGTGGGAGCCGAGTACCTGAAAAATTTCAAATGCCAGGCCAAATTAAAAACCCACTCAT
TAGAGCCCAGGAGTCAAGAGCAGCCTCTGCTTCAGCCCAAACAGGACATGCTGGGCATCCTCCCCGAGGCAGCC
CCCTGACCTCAAGCATCTCTTCTAGTATCACCTCCAGCCTGGCAGCTACCCCCCTAGCCCAGTGGGCACCCAGCA
GCGTCCCCGGCATGAATGCAAACGCTCTGCCCTTCTACCCCACCAGCGACACGGTAGAGTCAGTCATAGAGTCTG
CTTTGGATGACCTGGACCTGAATGAGTTTGGCGTGCCGCCCTGGAGAAGACTTTGATAACAGCACAGTGCCCC
ACCCAGGAAGCATCACCATCGGCGGCAGCTTGCTGCAGAGCTCTGCACCCGTGAACATCCCCGGCTCCTTGGGCA
GCTCTGCCTCCTTCCACTCAGCATCCCCGTCCCCCTCAGCCTCTCCTCGCATTTCTGTCAGCAGCCCCAGG
GCCACCTGAGTCAGTCGGAAAACACATTTTGGGAACCTCAGCATCACATGGATCTTTGGGTCTGAACGGGATGA
ACAGCAGCATCTGGGAGCATTTTGCCTCTGGAAGCTTCTCCCCGGGCACTTCCCCCGCTTTCTATCAGGGCCAG
GGGCTGCCGAGCTGGCCCGACTTCGGCAAGAGCTGGATGAAGCCAACAGCACCATCAAGCAGTGGGAGGAGTCTT
GGAAGCAGGCCAAGCAGGCTTGTGATGCCTGGAAGAAAGAGGCGGAGGAGGCTGGTGAGCGGGCCAGTGCGGCGG
GCGCCGAGTGCGAGCTGGCCCGGAGCAGCGGGATGCACTGGAGGTGCAGGTGAAGAAGCTCCAGGAGGAGCTGG
AGCGGCTACACGCGGGGCTGAGCCCCAGGCCCTGCCCGCTTCTCCGACCTGGAGGCGCTCTCACTCTCCACCC
TCTACTCCCTCCAGAAACAACCTGCGGGCCACCTGGAACAAGTGGACAAGGCCGTGTTCCACATGCAGTCGGTGA
AATGCCTTAAGTGTGAGAACAGAAGCGGGCAGTGCTGCCGTGCCAACACGCTGCGCTGTGTGAGCTCTGCGCTG
AGGGCAGCGAGTGCCCCATCTGCCAGCCTGGCCGGGCCCCACACCTCCAGTCGTGACCCTGCAGGCCTGGCCAG
CCTGGCCCAGATCTTCTCACCTAGGACTTTTTAAAGTATATATATATATATGAATATATATATATATGTGTATGT
ATGTATGTATATGTATATGATTATGTATATGTATACATTTCCGTATGTATGTATATGTATACATTTCCGTATGTG
TGCAGGTATGCGTGGTGGTGTGGACAGTGTCTGTGTGTATATCTGTACATAGATATAGACACACACTTTAAAGA
CTTACCAAGCACTTTTTAAAGAAGAACTATTTTGCAGTCCTCCCCCTACCCACTCCCTGCCCTTCCCACTGCAG
AGATGACATCCCCCTCTTCTCCCACTGGCCTTTTGGCAGAGAATCTGGTTCGTCTCTTTTTTAATGTAGGAACTA
ACTATTTTTAACTTCTTCTGGGGCCTGAGCAGGGAAGGGTGGGACTGGAAGGCCTAAGGGGAAGGGAGAAGCC
CTCAGGGCAGGCCCTGCTCCCCCTACCTCCTTGCCAGGGCAAGGGTGGAGTGTGGAAGACGTGGGTCCCCAGAG
CAGGCCTGGCCCCCAGCTXGXTGAGGGCCTCAGGGAGGCCCGAGGGGGAGTGCTGGGGGTCTCAGCTGGCTTAGC
TCCTAAGTTTACCAAATGTTAATTTAGTCTTGGGGAGAACAGCAAGGGCTGGAGGCCAGTGCTGCAGGGCCAGCC
CCACTCCTGACACCTGGGCCCTTGAAGCTCCTTGAGGGGCAAGGCCAGGAGTTCAGCCCTCAGGTTCTGAGG
GTCCACCTCAGTCCTTCCCCCGCCGCCCTCCCCGACTCCCCACAAGAGCCTCCCTGGCCCCAGGGCCGCCCT
ACCAGGCTGGTACTCATTCTATGACCACCGCCCCCAACCAGCTGCCCCCAGCTCTCCCTGCCCCCTCCCCCTCTCT
GGCAGCTAGCAGGGCAATTGGCGGGGAGGAGTGCGGACTGAGGACTGAGGACCAAGGGGGGCCAGGCCCTGCCCT
CCTACCCGGAGGGGCTCCGTTTGCAATTCCTTGGTGTCTCTGAGTGCAGCTGGTGTCCCGCCCTGTTCTGGGCGG
ACGCCTGTGTGCGTGTGTGTGCCTGTCCAGTGTATATTGTGTCTTAGCTTCCATTTTAAAAATTGTTCTGTAC

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FIGURE 4971B

AGAGAGAGATGCAGCAGGGGCGGGAGGGCAGAGTGGGCGGAGGGGAGCAGCCGCACCCCCAGCACCGGGTGTCTG
CGGTAGGAACAAGAGGGCTGAGAGGGTCTGGTCCTGGCCCAGGCTCCCCCTTGGGCTCAGCACGAAAGGGCTTTC
AATGAATTAAGTAAAACTTTTTCCTTTTTTACAAAAATGCAAAAATCAACAAAGCTCCAAACCTATTGGAATA
AAATATGAACTTGC

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FIGURE 4972

MSKGPGPGGSAASSAPPAATAQVLQAQPEKPOHYTYLKEFRTEQCPLFVQHKCTQHRPYTCFHHWFVNQRRRSI
RRRDGTFNYSFVCTKYDEATGLCPEGDECPFLHRTTGDTERRYHLRYKGTGICIHETDSKGNCTKNGLHCAFA
HGPHDLRSPVYDIRELQAMEALONGQTTVEGSIEGQSAGAASHAMIEKILSEEPRWQETAYVLGNYKTEPCKKPP
RLCRQGYACPYHNSKDRRRSPRKHKYRSSPCPNVKHGDEWGDGPKCENGDACQYCHTRTEQQFHPEIYKSTKCN
DMQQSGSCPRGPFCAFAHVEQPPLSDDLQPSAVSSPTQPGPVLYMPAAGDSVPVSPSSPHAPDLSALLCRNSS
LGSPSNLCGSXTGLHQEAPKPGGHRLPWGVWPGPWQL

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FIGURE 4973

TGCGTTTTGAGTCTCGGGACCCCTGTTGGAGAGACTATGCGCGCTCAACAAGAATCACTCGGAGGGCGGCGGAGTG
ATCGTCAATAACACCGAGAGCATCCTAATGTCTATGATCACGTGGAATCACATTCAATGACATGAAGAACGTG
CCAGAAGCCTTCAAAGGGACCAAGAAAGGCACTGTCTACCTTACCCCTTACCGGGTCATCTTTCTGTCCAAGGGC
AAGGATGCCATGCAGTCCTTCATGATGCCATTTTATCTCATGAAAGACTGTGAGATCAAGCAGCCCGTATTTGGT
GCAAACTACATCAAGGGAACAGTGAAGGCGGAAGCGGGAGGTGGCTGGGAAGGCTCTGCTTCCATACAAGTTGACT
TTCACGGCAGGGGGCGCCATTGAGTTCGGACAGCGGATGCTCCAGGTGGCATCTCAAGCCTCCAGAGGTGAAGTC
CCCAGTGGAGCCTATGGCTACTCTTACATGCCCAGCGGGGCTATGTCTATCCCCCGCCAGTCGCCAATGGAATG
TACCCCTGCCCTCCTGGCTACCCCTATCCACCGCCCCCACCTGAGTTCTATCCAGGACCCCCCATGATGGACGGG
GCCATGGGATACGTGCAGCCCCACCACCGCCCTACCCCTGGGCCCATGGAACCTCCGGTCAGCGGCCCCGATGTC
CCCTCCACTCCTGCAGCCGAAGCCAAGGCCGCGAGAAGCAGCGCCAGCGCCTATTACAACCCAGGCAATCCTCAC
AACGTCTACATGCCCACGAGCCAGCGCCGCCACCTCCCTACTACCCACCGGAAGATAAGAAGACCCAGTAGGCC
CTCCTGCCTCCCTGCCTCCCACCCTCATCTCTCTACCCCTACCCCTCCCATCGGGGCTGTGCTGGGGCTTGGGGAG
GGGAGGGGGCGCCTTGTTCTCCCTCCAGGTCTGATCATAAACAATTACCAGGAAGTAGCATTGTGGGACATTAGG
GCCCCGGCCTCGGGAGAGGTGCCGCCAGCTTCCCATGCCAGCCCGGAGCCACAGTGCTGCCAGCGTACCTC
CCTCACCGTCTGGGGCTCTTCTGGGAGCACGGAGCATCCCCTGTTCTGTTTCACTCTCAGCTTCTCCCCTCGAA
GGGACTCTCTGGCCACCTCCTCCACCGCAGTCCAGCTCCCTCAGTCTGGCACCCACTGCTACACTCAGCCTCATG
AGCCACTTCAGACCAGCCAGAAGGAGCTTCTGACTGGAACCAGAGAATGCATGTCTGTCCACTTGGTGGCTGCT
GGGTGGGGCCGGGAACAAGGGCCCCTGACCCTGTGTGCTGGCCGGGACCTGCCACCAGCCCCCAGCCTGCTTCT
TCCCCTTAAGCTTTGTGCCCCCTGGATGCGCTAACATTCACTCTTGTGTTTGTCCCTGGACTGGCCATGAAGTGAGGA
GATGGTTATTTAAAGAGAATTCCCTATTTATTTGACAAAAAATCCAGTTAATATATTAATGTGAAATAAACCCCTG
TTTGACCTCG

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FIGURE 4974

MALNKNHSEGGGVIVNNTESILMSYDHVELTFNDMKNVPEAFKGTKKGTVYLTPYRVIFLSKGKDAMQSFMMPFY
LMKDCEIKQPVFGANYIKGTVKAEEAGGGWEGSASYKLTF TAGGAIEFGQRM LQVASQASRGEVPSGAYGYSYMP S
GAYVYPPPVANGMYPCPPGYPPPPPEFYPGPPMMDGAMGYVQPPPPYPGPMEPPVSGPDVPSTPAAEAKAAE
AAASAYYNPGNPHNVMP TSQPPPPPYPPEDKKTQ

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FIGURE 4975

GGTGCGCAAGGGCACGGACCTCGGAGCTCTCCCCGTTCCCCCGCCGGCCATGAACGCCGCTCGCACCGGCTACCG
AGTCTTCCTCGCCAACTCCACGGCCGCTGCACGGAGCTGGCCAAGCGCATCACAGAGCGCCTTGGTGCTGAATT
GGGGAAGTCTGTTGTATATCAAGAGACCAATGGAGAAACAAGAGTTGAAATAAAAGAATTTGTTTCGTGGCCAAGA
TATTTTCATTATACAGACAATACCCAGAGATGTGAATACAGCTGTGATGGAGTTGCTCATCATGGCTTACGCACT
GAAGACTGCCTGTGCCAGGAACATTATTGGGGTTCATCCCTACTTCCCCTACAGCAAGCAGAGCAAGATGAGGAA
GAGGGGTTCCATTGTGTGCAAGCTGCTAGCATCCATGCTGGCGAAAGCAGGTTTAACTCACATTATCACTATGGA
TCTTCATCAAAAGGAAATACAAGGCTTTTTTCAGCTTTTCTGTGGACAACCTTAGAGCCTCACCTTTCTGTCTCA
GTATATCCAGGAAGAAATTCCAAATTACAGAAATGCAGTCATTGTAGCTAAGTCTCCTGATGCTGCAAGAGGGC
CCAGTCCTATGCGGAGAGACTGCGTCTGGGTTTGGCCGTCATTACGGGGAAGCTCAGTGCACGGAACCTGGACAT
GGACGATGGTTCGTCCTCCCCGCTATGGTCAAAAATGCTACTGTGCACCCAGGCCCTGGAGTTGCCATTGATGAT
GGCCAAAGAGAAGCCACCGATAACTGTAGTTGGAGATGTTGGAGGCCGTCATCGCAATCATCGTGGATGACATTAT
TGACGATGTGGAGAGTTTTGTTGCTGCCGCGGAGATCCTGAAAGAGAGAGGCGCCTATAAGATCTATGTTATGGC
CACCCACGGCATCCTGTCTGCAGAGGCCCTCGCCTGATTGAGGAGTCCTCCGTAGACGAGGTGGTGGTGACGAA
TACTGTCCCTCATGAGGTTTCAAGCTGCAATGTCCCAAGATAAAGACTGTGGATATCAGTTTGATTCTTTCTGA
AGCCATTTCGGAGAATCCACAATGGAGAGTCCATGGCCTACCTTTTCCGAAACATCACTGTGGATGACTAGCTTTTC
ACGAGGGTCTCGACCCTGGACCTCCTGAGGGAAACATGGAAAAAGCAGTGCCATGAGTGATACAGTGTTCCTTG
CAAGGGAGGACTCGAAACAGCCTGGAGTTAGATATCTTCTTTTGGCCGGATTGATGGGGAGGAGGGATTAAAAGA
GTCAGGAAGAAGACAGAGCTAATGGATAAAATATCATAACATGGCCTTACATGTCTGCTGTCATCAGCCCTGTTCC
TTAAAAGTTCTAGCTGCTTTCTTAAAAATAATCTGAAAATCTTATTGATACTAAAGAGGAGTTAAAGGCACATAA
AGTCTTAACTCTATAATGTTTCAATTTAGTTGTTTCAGCTCCAGGGAAATGGAGGTATTGATGTTGAACCTGGTTAG
GGAAGCTGAGCGCCTGTGGCCCTATTACTATCCAGTTGGCCTCTCCCAAATCAACTTCAAGTCTTTTATAGAGAA
TCGTATTTTTCTTTTCAAGAAATTGCTATGCCTACAGCCATTGAAAAATGAAGCATTATGTTGTTACATCTTCCAA
GGATGTGAGATTAGAAAATAGCATCCACCTCTGGGTATCTGAGTGGCTCTGAAGTTGCAAAATAAAATAATTTGT
TGT

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FIGURE 4976

MNAARTGYRVFLANSTAACTELAKRITERLGAE LGKSVVYQETNGETRVEIKEFVRGQDIFI IQTIPRDVNTAVM
ELLIMAYALKTACARNIIGVIPYFPYSKQSKMRKRSIVCKLLASMLAKAGLTHIITMDLHQKEIQGFFSFPVDN
LRASPFLLOYIQEEIPNYRNAVIVAKSPDAAKRAQSYAERLRRLGLAVIHGEAQCTELDMDDGRHSPPMVKNATVH
PGLLEPLMMAKEKPPITVVG DVGGRIAIIVDDIIDDVESFVAAAEILKERGAYKIYVMATHGILSAEAPRLIEES
SVDEVVVNTNVPHEVQKLQCPKIKTVDISLILSEAIRRIHNGESMAYLFRNITVDD

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FIGURE 4977A

CGCCTCCCCGCGCCTCGTTTCGCCGCCGCTGTTCGCCGCCGCCGCCGAGACTCGCGCAGAGCAGTTATGGCGGATC
CCGCAGCCCCCAGCCCCGCAGCTCCCGCTCCAGCCCAGGCCCCGGCTCCAGCCCCGGAGGCAGTCCCGGCCCCAG
CCGCAGCCCCCGTCCCGGCGCCGGCGCCCGCCTCGGACTCGGCCTCCGGGGCCGTCTCGGACTCCGGCCCAAG
CCGGCTCGCAGCGCCTGCTGTTTTCTCACGACCTGGTGTGGGGCCGTTACCGTGGCTCCGTGCACTTCGGGCTGG
TGCCTCATCCACGGCGAGGACTCGGACTCGGAGGGCGAGGAGGAGGGCCGCGGGAGCTCGGGGTGCTCCGAGG
CCGGGGGCGCGGGCCACGAGGAGGGCCGGGGCCAGCCCCCTGCGCCGCGGCTACGTGCGCGTCCAGTGGTACCCGG
AGGGCGTCAAGCAGCATGTGAAGGAGACCAAGCTGAAACTAGAGGACCGTTCTGTGGTGGCCCGAGATGTGGTCC
GGCACATGCGATCCACCGACAGTCAGTGTGGCAGCGTGATCGACGTCAACATCGACTGTGCCGTCAAGCTCATCG
GCACCAACTGCATCATCTATCCCGTCAACAGCAAGGACCTGCAGCACATCTGGCCCTTCATGTATGGGGACTACA
TTGCCATGACTGCTGGCTGGGGAAGGTCTACGACTTGAAGAACCAGATCATCTGAAGCTATCCAACGGCGCCA
GGTGTCCATGAACACGGAAGATGGCGCCAAGCTCTACGACGTCTGCCCGCACGTGAGCGACTCGGGTCTCTTCT
TCGATGATTCTATGGCTTCTACCCAGGCCAGGTGCTCATTGGCCCTGCCAAGATCTTCTCCAGCGTCCAGTGGC
TGTCAGGTGTCAAGCCCGTGTCTCAGCACCAAGAGCAAGTTCCGAGTGGTGGTGGAGAGGTGCAGGTTGTAGAGT
TGAAAGTTACATGGATTACCAAGAGTTTCTGTCCAGGGGGCACGGACAGCGTCAGCCCCCACCCTCTGTATCA
CCCAGGAAAACCTAGGCAGGGTGAAGCGTCTCGGATGCTTTGACCATGCTCAGCGGCAGCTTGGGGAGCGCTGTC
TGATGTCTTCCCAGCCAAGGTAGAGCCAGCCAAGATTGCCTGGGAATGTCCAGAAAAAACTGCGCCCAGGGGG
AGGGCTCTATGGCCAAGAAGGTGAAGCGCTGTTGAAGAAGCAGGTTGTGCGGATCATGTATGCTCCCCAGACA
CCCAGTGTTCGCGGGACCATTCCATGGAAGACCCAGACAAGAAGGGGGAATCCAAAACCAAGAGCGAAGCGGAGT
CTGCCAGCCCTGAGGAGACGCCCCGATGCTCTGCCAGTCCAGTGGAGATGCAGGACGAGGGTGCAGAGGAGCCCCA
CGAGGCAGGAGAGCAGCTGCCCCATTCTGTCTAAAAGAAGGCAGAGATGACAGGCTGCACTCGGCAGAGCAGGA
CGCAGATGATGAGGCTGCTGATGACACGGACGACACCAGTTCCGTGACCTCCTCTGCCAGCTCCACCATTCTCTC
CCAGAGCGGCAGCGGCACGAGTCGCAAAAAGAGCATCCCTTGTCCATCAAGAACTTAAAGCGCAAACACAAGAG
GAAGAAGAATAAAATCACTCGAGACTTCAAGCCAGGGGACAGGGTGGCAGTGGAGGTGGTGACCACGATGACCTC
AGCCGACGTGATGTGGCAGGATGGCTCCGTGGAATGCAACATCCGCTCCAACGACCTCTTCCCTGGCACCACCTG
ACAACAACGAGTTCTGCCCTGGAGACTTCGTGGTAGATAAGCGAGTCCAGAGCTGTCCAGACCCTGTGTCTACG
GTGTGGTACAGTCTGGGGACCACATCGGCCGTACCTGCATGGTGAAGTGGTTCAAGCTGAGGCCGAGTGGGGACG
ACGTGGAGCTGATTGGAGAAGAGGAAGATGTGAGTGTTCACGACATTGCTGACCACCCTGACTTTAGGTTCCGTA
CAACTGACATCGTCATCCGCATCGGCAATACTGAGGATGGGGCTCCTCACAAGGAGGATGAGCAGCCATCGGTGG
GCCAGGTGGCCCGTGTGGACGTCAGCAGCAAGGTGGAGGTGGTGTGGGCTGACAACTCAAAGACCATCATCTGTC
CCCAGCACTTGTAACAATAGAGTCTGAGATTGAGGAGTCAGACTACGATTCCGGTAGAAGGCAGCACCAGCGGGC
ATCCTCGGATGAATGGGAAGATGATAGTGACAGCTGGGAGACGGACAATGGGCTGGTGGAGGACGAGCACCCTAA
GATAGAGGAGCCCCCATCCCACCCCTGGAGCAGCCGCTGGCCCTGAGGACAAGGGAGTGGTGTATCAGTGAAGAG
GCAGCCACAGCCGTAXCXCTAGGGGGCTGTGGCCATGGCTGCCCCATGGCCGGGCTGATGGAGAAGGCTGGCAA
GGACGGGCCACCCAAGAGCTTCCGGGAGTTGAAAGAGGCCATCAAGATCCTGGAGAGCCTCAAGAACATGACTGT
GGAGCAGCTGTGACGGGCTCGCCACCTCTCCGACTGTGGAGCCTGAGAAGCCAACCTCGGGAGAAGAAGTTTCT
GGATGACATCAAGAAGCTACAGGAAAACCTCAAGAAGACCTGGACAATGTGGCCATTGTAGAGGAGGAGAAGAT
GGAAGCAGTGGCCGACGTAGAGCGCAAGGAGGACAAGCCCGAGGGCGAGTCACCTGTGAAGGCTGAGTGGCCAG
CGAAACCCCGGTGCTGTGCCAGCAGTGTGGCGGCAAGCTGGCGTCACCTTACCAGCGCCAAGGGCGAGGTCTTC
TCCGTACTGGAGTTTGCACCCTCAAATCATCTTTTAAGAAAATTGAGTTCCAGCCTCCAGAAGCCAAGAAGTTC
TTCAGCACAGTGGGAAGGAGATGGCGCTGCTGGCTACCTCACTGCCTGAGGGCATCATGGTCAAGACTTTTGAA
GATAGAATGGACCTCTTCTCAGCTCTCATCAAGGGCCCCACTCGAACCCCTACGAGGATGGCCTCTACTTGTTC
GACATCCAGCTCCCCAACATCTACCCAGCCGTGCCCCCCCCACTTCTGTACCTCTCCCAATGCAGTGGCCGCTG
AACCCCAACCTGTATGACAATGGGAAGGTGTGTGTCAGCCTCCTGGGCACCTGGATTGGAAAGGGGACAGAGAGG
TGGACAAGCAAGTCCAGCCTTCTCCAGGTGCTCATCTCCATCCAAGGTCTGATCCTGGTAAATGAACCATACTAC
AACGAAGCCGGCTTCGACAGTGACCGAGGCTGCAGGAAGGCTATGAAAACAGTCGCTGTTACAATGAGATGGCG
CTGATCCGCGTGGTGCAGTCCATGACCCAGCTGGTGGCGCGGCCCCCGAGGACTTTGAGCAGGAGATCAGGCAA
CACTTTAGCACTGGTGGCTGGCGGCTGGTGAACCGTATCGAGTCTGGCTGGAAACCCATGCCCTGCTGGAGAAG
GCCAGGCACTGCCAACGGGGTGGCCAAGGCCAGCAGCTCGCCAGACGCCCCAGCTGTAGCCGAGCTGTGACAG

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FIGURE 4977B

TCCGGCCAACAAGAACCTGAGGATGGAGGGCCAGCCCCAGGAGAGGCCTCCCAGGGCTCAGACTCAGAGGGCGGT
GCCAGGGCCTGGCCTCAGCTAGCAGGGACCACACAGACCAGACTTCGGAGACCGCACCAGACGCATCGGTGCCAC
CCAGTGTGAAACCAAAGAAGCGGAGAAAGAGCTACCGGAGCTTCTTACCTGAGAAGAGTGGCTACCCTGACATCG
GCTTCCCCCTCTTCCCACCTTTCCAAGGGTTTCATCAAGAGCATCCGGGGTGTCTGACGCAGTTCGGGGCTGCCCT
GCTAGAGGCAGGCATGCGGXAGTGCACAGAGGACAAGTAGCTGCCAGGCACAGAGGAAAGAGCATCACCGTGGGA
GAGGCCAGCCGCCGCTGCTCACTCCCCCGGAATCACCCCTCTTCCCATGCCCCCTGTGTCCCACTGCAAACC
CACTGCCCTCTTCTCCCCAAGGTGAGTTTGATGCTGAAGTGCAAGAAGTGTGTGAGATGCTGCCGTTTCTATTT
TGAAGCGAGCTTTCAACAGGCGGGTCCCCTGTGGCAAAGAAAATCGGAACCTGTTGCCGATTTTCCATTTGTCA
CCCCAGCAGAATGTCCGGCACTTGCTCCCTTGCTGCCCCCTTCTCAGGTCAGAGGCGGGTGTTCAGGGCCTGCCG
CGGGGCTCTCTGGGCCGGTTCCCTGCAGACCCGCAGACGAGCACATGTGCCTTGCATGAAGTGTGGGTGCGCCA
ACAATTCCCCTGGTCCCTTTCAACCTGTTTAGTTCAACTCAAGCCTCCCTGTGTCCCAGACCCCTCCTGTGCCAC
CACCACCCAGGTCCCTCCCTAGTCTCCAGCGTCAACACTATCCCTTGGGGAGTTGTAGCTGCTGTCACTGACTCC
CGGCTATACATGGCCTGTGACACCGTTATAGCCCTCAGGCCTGTTGAACTTGCTCTCTAAGAGAGGTTGGGACC
AGGCTAGGTTCCGGGTGACGCCCAGGAGAGGTGGTGGCCTTCACACATGCACATGGAGTTGAGGACCAGGGAGCT
GCAGGGAAAGCAACAGCTATAGGTGCCTTGCTCTTCTGTGCGAGGCTGCTGGGGGCAAGAGCAGCTGCACAAGGC
CAGGGCAAGTGCTAGGGCCCCCTCCCCATCACATGGTCACACTGGGACAGGCGTGCAGCTCACTGAACTCCAAGC
GAGCCAGCCCTCTCTTGGACTAGAAGGCCTACTGTGAGCCCTTCGCTTACAACTGCAGGCTCAATCCGAAGGGG
ACGGCCGGCGGGGGCTCTCCTAGTGCCCAGAGACAGGCCAGAGGTTTACAAGTTTTCTAAGCTTTTGATAATGT
GAAGCTCCAGGCCGAGAGGATGCTGTTGAGCACATTGCAGCTATGTAATTTTTGGTGTATGTATGTAATATTTAA
GGTTGGAAAAAACTCAAAAGCAAAGATATTAACCTCTATTAGAAAAAAAGACAAAAAAAGCCAAAGCATGA
TGCGTCTTGTGAGCCTTAAGTGGGCTCCACACCTGTGCTGTGCTGTGACCGCCAGCCAGCAGAGCTGCGGGAGG
ATGGAGCCGGACCACACACCGTGGCATTGGAACCGAGTCGGTATCTTGTGTTGAGAAACACCCGGAGTGACTGGT
GGGGCTGTGCTTCCCAGTGCAATTGTACATGTGGAGATGTGAATGCCTACTGCTTACGATATCTGTATAAAGTGCT
GTGTGATTAAACTTTTTTTTACTTGC

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FIGURE 4978

CAGGACGCACATGCAGAACATCAAGGACATTTGGGTCAGCGTCTCCTTCGTGGTGTACCTTGTGAAGCGCCTCAA
CGAGGGCAGCAGCGCCATGGCCAACGGCATGGAGGAGAAGGAGCCAGAAGCCCCGGAGATGTAGACGCCACCCTG
CCCACCCCGGGATCCTGCCCCAAGTCATTTCCGTCCCCCCCCAGGCCCTCCCACCACCCCATTTTATTTTATA
TGATTTTCTCCATTTGTATCGTTCCCCACCCCTTCGACATGCTGCCAGGAAACAAGGGAAGGGGCCTCCCTCCG
AGTGAGTCAGTGATGAGGCCGCGGCCTCCCCGAGGTTGTGGGGAGGCTGCACTGGAGCCACAGGCAGGGGTGAGA
GCACCCACTGAATTGACATGACCCTCTGTCCCCAGGCCTGGCTCCCCGAGGGCTCAGAAGAGCAGCTTCGGTGTG
CAGATCATCCGTCTGTGTGGGGTTCTCAGTGCCGGAGGCCTTGGGGTGGGGGCCAGGCCTCGCACTTGCAGAGGA
GCCAGTGGGCTGCACGCTCCCCTCCATCCCCATCGGCCCTGTCCCCTGGAGTGTGTAGAGCCCAGGGGAGAAT
GCAGCCCACCAGGAGCACCTGGACCCCTGCCCGCCACATGGTGTGGCCATCACTCAGCCCCTACCCCTGCCCTG
CTCTAAGGGTAGAAAACCTCCAGGGTCCCCTGCCACCGACTGCCAGCCACTCCAAGCCCCCTGGCAGCTGCCCC
TCCTGGAGCAGAAAGTGCCTTTATCTCAGCCATCCGCAGACTGCTTGGCCAGATGCGGGGACAGGCTGGAATGAG
GGAGGCGTCTTCATCTCCCTGCCATCCCCCTCTACGCCACCCCCGCCCCACCGGGCTGCAGGTGCTGCTGATG
CGCTGGGATCTGATTGAGGATAAAAAGGAAGGAGAGATGACCCCTACCCCTCATCCCCAGTTTTGAAAAGGTC
TAAGCAAGTGAGTCTGGTGGAGGAGCTGAGGGAGGGAGCCATGGAAGGTGCCAGAAGGAAGGTTGGCGGGGGCAC
GTGTGGGCCGTGGCTTGGGCTGGTCAGAGTGGCGTGAGCTGCCCGCGCCTGCCCTGCCCAAGTGACCAGGGAAG
TGTGTGTGTGTCCATGTGTATGCGTGTCCGTCTGTCTGTCTAGTGTCTGGGTTTGGCCCAAGACTGGGCTGTAGT
TACATTAATGCCCAGCCAGCCACCCCTGCCACTCACCCCTTCTGGCCCAGGCCTTGCTGACTCTCTGAGCTGGGG
AGGTGGGAGGCCAGGCGAGCCTGACTCTGTTGATCTACCGTGCTGGGCCCTCCCCTCAGAGCCCATGGTAAC
GAACCCCTAGAAAGGAGAGAACGGGCGTCAGGGGTGCACAGTCCACAGCTGAAGAGCAAGGTTTCGTGGCAGCAC
GGCCCGGCCCTCACCCCTCTGTCCCACGAGGGGACCCATGGGGCTGTCTTTGCAGGGCACAGATGACCAAAGT
CCCTTCTGCTTCTGTACCTGTCTTGCTCCTGGGGAGAAAGAGGGGCTGATGAGACTCCACTCAGGTGCACA
CATCACCAGGTGCATCTGCAGGCACCGGGCTGGCTGCTTGCCAGCCAGGAGAAGGTCAGCGAGAAGGAGTGTATGA
GTGTGAGTGTGTGTGCATGGAAGTTGGGGCACTGGGCGTCTGACTCCCTCCCCACCCAAGAGAGGAAGGACCCCT
CACCACCCCACTGGTGAGACAGTTTACTTTGCCAATTGCCATGTTTTTGCCAAAACCAAGATTTTGAAGGAAA
TGAGTGGCCAGCGCCAGGGCCCAGGCCATGTGGCCTGCCAGCCTCAATGTCACCTGGTGGCGGGGTGGGGTGGG
GGTGGGCAGCAGCATCCCAGCCTTGAGATGCTTCACTTTCTCTGTGTAACCAGACTTTGAAAAATTGTTTCGTT
TCATCAGGCTCTGTTCCCTCAATGGCCTTTTGCTACGTGCCTCCCGAGAAATTTGTCTTTTGTATAAATGACAAA
GTGTTGAAAATGTATTTCTGAAATAAATGTTTCAAATGCAGAAACCC

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FIGURE 4979

MGSFRTSSALKRSFEVEEVETPNSTPPRRVQTPLLRATVASSTQKFQDLGVKNSEPSARHVDSLSQRSPKASLRR
VELSGPKAAEPVSRRELSIDISSKQVENAGAIGPSRFGKRAEVLGHKTPEPAPRRTTEITIVKPQESAHRMEP
PASKVPEVPTAPATDAAPKRVEIQMPKP AEAPTAPSPAQTLNSENAPVSQLQSRLEPKPQPPVAEATPRSQEAT
EAAPSCVGDMA DTPRDAGLKQAPASRNEKAPVDFGYVGIDSILEQMRRKAMKQGFEFNIMVVGQSGLGKSTLINT
LFKSKISRKSVQPTSEERIPKTIEIKSITHDIEEKGV RMKLTVIDTPGFGDHINNENCWQPI MKFINDQYEKYLQ
EEVNINRKKRIPDTRVHCCLYFIPATGHSLRPLDIEFMKRLSKVVNIVPVI AKADTLTLEERVHFKQRITADLLS
NGIDVYPQKEFDEDESDRLVNEKFREMIPFAVVGSDHEYQVNGKRILGRKTKWGTIEVENTTHCEFAYLRDLLIR
THMQNIKDITSSIHFEAYRVKRLNEGSSAMANGVEEKEPEAPEM

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FIGURE 4980

CAGATGTAGTTTTTCCGCACGTGCACGCCTTCCCTCCTCCCCGCCCTCAGGGTCCACGGCCACCATGGCATATT
AGGGGCAGCAGTGCCTGCGGCAGCATTGGCCTTTGCAGCGGGCGGCAGCAGCACCAGGCTCTGCAGCGGCACCCCC
CAGCGGCTTAAGCCATGGCGCTTCCCACGGCATTTCAGCAGCAGCATTGCTGTAAACCGACAAAGACACCTTCGAAT
TAAGCACATTACTCGATTCCAGCAAAGCACCGCAACATGACCGAAATGAGCTTCCTGAGCAACGAGGTGTTGGTG
GGGGACTTGATGTCCCCCTTCGACCAGTCGGGTTTGGGGGCTGAAGAAAGCATAGGTCTCTTAGATGACTACGTG
GAGGTGGCCAAGCACTTCAAACCTCATGGGTTCTCCAGCGACAAGGCTAAGGCGGGCTCCTCCGAATGGCTGACT
GTGGATGGGTTGGTCAGTCCCTCCAACAACAGCAAGGAGGATGCCTTCTCTGGGACACATTGGATGTTGGAGAAA
ATGGATTTGAAGGAGTTCGACTTTGGTGCCCTGTTGGGTATAGATGACCTGGAACCATGCCAGATGACCTTTTG
ACCACGTTGGATGACACTTGTAACTCTTTTGCCCCCTAGTCCAGGAGACTAATAAGGTGCCCCCCCAGATGGTG
AACCCAATTGGCCATCTCCCAGAAAGTTTAAACAAAACCCGACCAGGTTGCCCCCTTCACCTTCTTGCAACTTCTT
CCCCTTTCCCCAGGGGTCCAGTCTCCACTCCAGATCATTCTTTAGTTTAGAGCTGGGCAGTGAAGTGGATATC
ACTGAAGAAGATAGGAAGCCGGACTCCACTGCTTACGTTGCCATGATCCCTCAGTGCATAAAGGAGGAAGACACC
CCTTCAGATAATGATAGTGGCATCTGTATGAGCCCAGAGTCTATCTGGGGTCTCCTCAGCATAGCCCCCTCTACC
AGGGGCTCTCCAAATAGGAGCTCCCATCTCCAGGTGTTCTCTGTGGGTCTGCCCACCCCAAACCTTACGATCCT
CCTGGAGAGAAGATGGTAGCAGCAAAAGTAAAGGGTGAGAACTGGATAAGAAGCTGAAAAAATGGAGCAAAAC
AAGACAGCAGCCACTAGGTACCGCCAGAAGAAGAGGGCGGAGCAGGAGGCTCTCACTGGCGAGTGCAAAGAGCTG
GAAAAGAAGAACGAGGCTCTAAAAGAGAGGGCAGATTCCCTGGCCAAGGAGATCCAGTACCTGAAAGATTTGATA
GAAGAGGTCCGCAAGGCAAGGGGAAGAAAAGGTCCCCTAGTTGAGGGTAGGTCAGGAGTGTCAACGTGCTTGT
ACATAGAGTGTCTGCTGTAGCTGTGTGTTCCAATAAATTATTTTGTAGGG

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FIGURE 4981

MTEMSFLSNEVLVGDLMSPFDQSGLGAEESIGLLDDYVEVAKHFKPHGFSSDKAKAGSSEWLTVDGLVSPSNNSK
EDAFSGTHWMLEKMDLKEFDGALLGIDDLETMPDDLTTLDDTCNLFAPLVQETNKVPPQMVNPIGHLPESLTK
PDQVAPFTFLQLLPLSPGVQSSTPDHSFSLELGSEVDITEEDRKPDESTAYVAMIPQCIKEEDTPSDNDSGICMSP
ESYLGSPQHSPSTRGSPNRSLSPPGVLCGSAHPKPYDPPGEKMVAKVGEKLDKKLKKMEQNKTAATRYRQKKR
AEQEALTGECKELEKKNEALKERADSLAKEIQYLDLIEEVRKARGKKRVP

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FIGURE 4982

CGCTAGCCTGCGGAGCCCGTCCGTGCTGTTCTGCGGCAAGGCCTTTCCAGTGTCCCCACGCGGAAGGCAACTGC
CTGAGAGGCGCGGCGTTCGCACCGCCAGAGCTGAGGAAGCCGGCGCCAGTTTCGCGGGGCTCCGGGCCGCCACTCA
GAGCTATGAGCTACGGCCGCCCCCTCCCGATGTGGAGGGTATGACCTCCCTCAAGGTGGACAACCTGACCTACC
GCACCTCGCCCCGACACGCTGAGGCGCGTCTTCGAGAAGTACGGGCGCGTTCGGCGACGTGTACATCCCGCGGGATC
GCTACACCAAGGAGTCCCGCGGCTTCGCCCTTCGTTTCGCTTTACGACAAGCGCGACGCTGAGGACGCTATGGATG
CCATGGACGGGGCCGTGCTGGACGGCCGCGAGCTGCGGGTGCAAATGGCGCGCTACGGCCGCCCCCGGACTCAC
ACCACAGCCGCCGGGGACCGCCACCCCGCAGGTACGGGGGCGGTGGCTACGGACGCCGGAGCCGAGCCCTAGGC
GGCGTCGCCGCGAGCCGATCCCGGAGTCGGAGCCGTTCCAGGTCTCGCAGCCGATCTCGCTACAGCCGCTCGAAGT
CTCGGTCCCGCACTCGTTCTCGATCTCGGTTCGACCTCCAAGTCCAGATCCGCACGAAGGTCCAAGTCCAAGTCCT
CGTCGGTCTCCAGATCTCGTTCGCGGTCCAGGTCCCGGTCTCGGTCCAGGAGTCCTCCCCAGTGTCCAAGAGGG
AATCCAAATCCAGGTTCGCGATCGAAGAGTCCCCCAAGTCTCCTGAAGAGGAAGGAGCGGTGTCTCTTAAGAAA
ATGATGTATCGGCAAGCAGTGTAAACGGAGGACTTGGGGAAAAAGGACCACATAGTCCATCGAAGAAGAGTCCTT
GGAACAAGCAACTGGCTATTGAAAAGGTTATTTTGTAACTTTTGTCTAACTTTTTACTTGTTTAAGCTTTGCCTC
AGTTGGCAAACCTTCATTTTATGTGCCATTTTGTGCTGTTATTCAAATTTCTTGTAATTTAGTGAGGTGAACGAC
TTCAGATTTTCATTATTGGATTTGGATATTTGAGGTAAAATTTCAATTTGTTATATAGTGTGACTTTTTTTGTTT
GAAATTAACAGATTGGTAACCTAATTTGTGGCCTCCTGACTTTTAAAGGAAAACGTGTGCAGCCATTACACACAG
CCTAAAGCTGTCAAGAGATTGACTCGGCATTGCCTTCATTCTTAAATTTAAAAACCTACAAAAGTTGGTGTA
TTTGTATATGTTATTTACCTTCAGATCTAAATGGTAATCTGAACCCAAATTTGTATAAAGACTTTTCAGGTGAAA
AGACTTGATTTTTTGAAGGATTGTTTATCAAAACACAATTTCTAATCTCTTCTTATGTATTTTTGTGCACTAGG
CGCAGTTGTGTAGCAGTTGAGTAATGCTGGTTAGCTGTAAAGGTGGCGTGTTCAGTGCAGAGTGCTTGGCTGTT
TCCTGTTTTCTCCCGATTGCTCCTGTGTAAAGATGCCTTGTCTGTCAGAAACAAATGGCTGTCCAGTTTATTAAA
ATGCCGTGACAACTGCACCTCCAGTCACCCGGGCCTTGCAATAAATAACGGAGCATACAGTGAGCACATCTAGCT
GATGATAAATACACCTTTTTTTCCCTCTTCCCCCTAAAAATGGTAAATCTGATCATATCTACATGTATGAACCTA
ACATGGAAAATGTTAAGGAAGCAAATGGTTGTAACCTTGTAAAGTACTTATAACATGGTGTATCTTTTTGCTTATG
AATATTCTGTATTATAACCATTTGTTTCTGTAGTTTAATTAACATTTTCTTGGTGTAGCTTT

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FIGURE 4983

MSYGRPPPDVEGMTSLKVDNLTyrTSPDTLRRVFekYGRVGDVYIPRDRYTKESRGFAFVRFHDKRDAEDAMDAM
DGAVLDGRELRVQMARYGRPPDSHHSRRGPPPRYGGGYGRRSRSPRRRRRSRSRSRSRSRSRSRSRSRYRSKSR
SRTSRSRSTSKSRSAARRSKSKSSSVSRSRSRSRSRSRSPPPVSKRESKSRSRSKSPPKSPEEEGAVSS

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FIGURE 4984

CTTGACTTGGACCTTCGTGCGGATCTGGACTTGGAGGTCGACCGAGATCGAGAACGAGTGCGGGACCGAGACTT
CGAGCGGCTGTAGCGAGATCGGCTGCGAGACCTGGAACGGCTCCGACTCCGGGATCGGCTGCGGCGACGCCGCCT
AGGGCTGCGGGCGGGACGAGCAAGCACAGCGGGGTAAATTCCAGGCAGCGGGGCCGGCCCCGCCGCGCXCTXC
CCGCCAGGCCGCCATTATCTCGCCGCCAGACGCCATTTCCCCAGTCGCGAGGCGGGGTCTCCGCCCGCGCCG
CCCACACCCCGGCCACTCCCGGGTTCGAGACGGCGGAAGCTCGCGGGGTGGCCGGAGGGTTCGCGAGACGCGGCGT
GCACCCCGCCCCXGTXCCGGGCCCGCACACGTGCTTCGCCCGGGACCTTTGTGAGGTGCCCCGGGCCTCCCG
CGCGCCCGCCCCGCTCCCGCGGTCCCCTCAGCCCCGTTTACCTGCGGCTCCGGCGTCCGTAGCCACCGCCCC
GTACCTGCGGGGTGGCGGTCCCGCGGGCTGTGGTGTGAGTCCGGGGGCGGCCGTAGCGCGCCATTTGCACCCG
CAGCTCGCGGCCGTCCAGCACGGCCCCGTCCATGGCATCCATAGCGTCTCAGCGTCGCGCTTGTCTGTAAAGCG
AACGAAGGCGAAGCCGCGGGACTCCTTGGTGTAGCGATCCCGCGGGATGTACACGTGCGCGACGCGCCCGTACTT
CTCGAAGACGCGCCTCAGCGTGTGCGGCGAGGTGCGGTAGGTGAGGTGTCACCTTGAGGGAGGTACATACCCTC
CACATCGGGAGGGGGCGGCCGTAGCTCATAGCTCTGAGTGGCGGCCCGAGCCCCGCGAACTGGCGCCGGCTTC
CTCAGCTCTGGGCGGTGCGACGCCGCGCCTC1CAGGCAGTTGCCTTCCGCGTGGGGACACTGGGAAAGGCCTTGC
CGCAGAACAGCACGGACGGGCTCCGCGAGGTAGCGCACCTGAGTAACAACCTGGGCGGGCAGCCGGCCTCTGCGCC
CGTTTATATCGCTCCTCACAAAATGGCGCCCGCGCCACCCGAAATGAAACCTTCTGATTGGCCCCACCGCGCCCC
GCTTCGTAACGACCTGCGCGCGCCCCGCCCTACCCGAAGCGCTGCGCACAGCCGGCGGGCGGGCCAAAAA
GCGCGGAGTACGGCTGGAGGGAGGGGGAGCGGAATTAGCGGGCAGTTGGAAAGCCCGCGAAACGCTTTTTCCGC
CTGGGAGGCCGGACGATCGCGATTGGGCAGGAGXGXAAGAGGAGGTGCTCCCCATCTGGGCCCCACCTTTTTTT
CATGCCAATACTCCAAGTTCACGCCCTTTTTTGTCTCAGCCGTCAGCCCCGTCTCCGTCTGAAGAGTGCTTCTGC
CCTCATTGCTCTCCCTGTGACCCCGGCCCTCAGACTCCGCTGCGTCTCTCGGCCCCGTCCAGCCGTTT
CTGACTGCTCTTCGCCGGAGTCCGCTTCCCAACCCCTTTTCGCCAGAGCCCGAGAGCTCCGTCGGCTCTGCGTCC
TGGCGGTGGGACTCCCCGCCGAGCGCTTGCCTGCGTCCAGGTACCCGGGACTACGTTTCCCXAXGCGXGXGCC
GAGCGGCCGGCGCCGCGGCTGCGGTGAGGTGACCCGGTGCCTGGCCGAGTGAGTCAGGCTGGGAGGGCGGGG
CGCGCGGCTGCTGCGGCTGGCACTTGGCCCTTAATCCCCTTCGTGGGCCCCCTCAACCTGGAGCGGATAAATTC
TTGGCGCTTCTXCCGGGGGTGTGCTCTTCCGTACTCGGATCGCTTCTTAGGAGTATCCTAACTGCCGTTGGGGA
GAACTTCGCCCTAAACCTGGGGTTCCGATCCAGGAACCTGGAAGTTGACAGCTTGGCTGCCTGGCTCCTACATCTG
CCTTCTCCACTACCATCTCATTTCTTTCTCCAGGATTGTGAGTGGCTTCGCCCCGAGGAGAGCTGACTGCCCTG
GGCTGCTGCCTCCGGCAGAGCTGAGCCAAAATGTCCCGGAATCTAAAAAGCTTTTCAACATCATTATTTAGGA
GTTGCCTTTATGTTTATGTTCACTGCCTTTCAAACCTGTGG

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FIGURE 4985

CCGCCAGATTGGAATCGCGGGACCCGTTGGCAGAGGTGGCGGGCGGGCATGGGTGCCCCGACGTTGCCCCCTGC
CTGGCAGCCCTTTCTCAAGGACCACCGCATCTCTACATTCAAGAACTGGCCCTTCTTGGAGGGCTGCGCCTGCAC
CCCGGAGCGGATGGCCGAGGCTGGCTTCATCCACTGCCCCACTGAGAACGAGCCAGACTTGCCCCAGTGTCTT
CTGCTTCAAGGAGCTGGAAGGCTGGGAGCCAGATGACGACCCCATAGAGGAACATAAAAAAGCATTCGTCCGTTG
CGCTTTCCTTTCTGTCAAGAAGCAGTTTGAAGAATTAACCCTTGGTGAATTTTGAAGTGGACAGAGAAAGAGC
CAAGAACAAAATTGCAAAGGAAACCAACAATAAGAAGAAAGAATTTGAGGAACTGCGAAGAAAGTGCGCCGTGC
CATCGAGCAGCTGGCTGCCATGGATTGAGGGCCTCTGGCCGGAGCTGCCTGGTCCCAGAGTGGCTGCACCACTTCC
AGGGTTTATTCCCTGGTGCCACCAGCCTTCCTGTGGGCCCTTAGCAATGTCTTAGGAAAGGAGATCAACATTTT
CAAATTAGATGTTTCAACTGTGCTCCTGTTTTGTCTTGAAAGTGGCACCAGAGGTGCTTCTGCCTGTGCAGCGGG
TGCTGCTGGTAACAGTGGCTGCTTCTCTCTCTCTCTCTTTTTTGGGGGCTCATTTTTGCTGTTTTGATTCCCG
GGCTTACCAGGTGAGAAGTGAGGGAGGAAGAAGGCAGTGTCCCTTTTGCTAGAGCTGACAGCTTTGTTTCGCTGG
GCAGAGCCTTCCACAGTGAATGTGTCTGGACCTCATGTTGTTGAGGCTGTACAGTCCCTGAGTGTGGACTTGGCA
GGTGCTGTTGAATCTGAGCTGCAGGTTCCCTTATCTGTACACCTGTGCCTCCTCAGAGGACAGTTTTTTTTGTTG
TTGTGTTTTTTTTGTTTTTTTTTTTTTGGTAGATGCATGACTTGTGTGTGATGAGAGAATGGAGACAGAGTCCCTGG
CTCCTCTACTGTTTAAACAACATGGCTTCTTATTTTGTGTTGAATTGTTAATTCACAGAATAGCACAAACTACAAT
TAAACTAAGCACAAAGCCATTCTAAGTCATTGGGGAAACGGGGTGAACCTTCAGGTGGATGAGGAGACAGAATAG
AGTGATAGGAAGCGTCTGGCAGATACTCCTTTTGCCACTGCTGTGTGATTAGACAGGCCCCAGTGAGCCGCGGGGC
ACATGCTGGCCGCTCCTCCCTCAGAAAAAGGCAGTGGCCTAAATCCTTTTTAAATGACTTGCTCGATGCTGTGG
GGGACTGGCTGGGCTGCTGCAGGCCGTGTGTCTGTACGCCAACCTTCACATCTGTACGTTCTCCACACGGGGG
AGAGACGCAGTCCGCCCAGGTCCCCGCTTTCTTTGGAGGCAGCAGCTCCCGCAGGGCTGAAGTCTGGCGTAAGAT
GATGGATTTGATTGCCCCCTCCTCCTGTCTATAGAGCTGCAGGGTGGATTGTTACAGCTTCGCTGGAAACCTCTGG
AGGTCATCTCGGCTGTTCTGAGAAATAAAAAGCCTGTCATTTT

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FIGURE 4986

MGAPTLPPAWQPFLKDHRI STFKNWPFLEGC ACTPERMAEAGFIHCPTENEPDLAQCF FCFKELEGWEPDDDPIE
EHKKHSSGCAFLSVKKQFEELTLGEFLKLDRE RAKNKIAKETNNKKKEFEETAKKVRRAIEQLAAMD

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FIGURE 4987

GCGGCGGCGGCAGCGGCGGCGACGGCGACATGGAGAGCGGGGCGCTACGGCGCGGCCAAGGCGGGCGGGCTCCTTCG
ACCTGCGGCGCTTCCTGACGCAGCCGCAGGTGGTGGCGCGCGCCGTGTGCTTGGTCTTCGCCTTGATCGTGTTCCT
CCTGCATCTATGGTGAGGGCTACAGCAATGCCCACGAGTCTAAGCAGATGTACTGCGTGTTCAACCGCAACGAGG
ATGCCCTGCCGCTATGGCAGTGCCATCGGGGTGCTGGCCTTCCTGGCCTCGGCCTTCTTCTTGGTGGTCGACGCGT
ATTTCCCCCAGATCAGCAACGCCACTGACCGCAAGTACCTGGTCATTGGTGACCTGCTCTTCTCAGCTCTCTGGA
CCTTCCTGTGTTGTTGTTGTTCTGCTTCCTCACCAACCAGTGGGCAGTCACCAACCCGAAGGACGTGCTGGTG
GGGCGGACTCTGTGAGGGCAGCCATCACCTTCAGCTTCTTTTCCATCTTCTCCTGGGTAGGATGGCCAGGGGCC
GGTTCTTGGGTCAAGGXGTGTGGAAGGGGGGGXAXCCCCCAXCCACCTGTACCCTGCTGTGCTCCCCCTGCAGG
GTGTGCTGGCCTCCCTGGCCTACCAGCGCTACAAGGCTGGCGTGGACGACTTCATCCAGAATTACGTTGACCCCA
CTCCGGACCCCAACACTGCCTACGCCTCCTACCCAGGTGCATCTGTGGACAACCTACCAACAGCCACCCTTCACC
CAGAACGCGGAGACCACCGAGGGCTACCAGCCGCCCCCTGTGTACTGAGCGGCGGTTAGCGTGGAAGGGGGACA
GAGAGGGCCCTCCCXCTCTGCCCTGGACTTTCCCATGAGCCTCCTGGAAGTACC

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FIGURE 4988

CTTACTGCGGGACGGCCTTGGAGAGTACTCGGGTTCGTGAACTTCCCGGAGGCGCAATGAGCTGCATTAACCTGC
CCTACTGTGCTGCCTGGCTCCCCAGCAAGACCCGGGGGCGAGATCCAGGTGATTCTCGGGCCGATGTTCTCAGGAA
AAAGCACAGAGTTGATGAGACGCGTCCGTCGCTTCCAGATTXGCTCAGTACAAGTGCCTGGTGATCAAGTATGCC
AAAGACACTCGCTACAGCAGCAGXCTTCTGCACACATGACCGGAACACCATGGAGGCACTGCCCCGCTGCCTGCT
CCGAGACGTGGCCAGGAGGCCCTGGGCGTGGCTGTCTATAGGCATCGACGAGGGGCGAGTTTTTCCCTGACATCGT
GGAGTTCTGCGAGGCCATGGCCAACGCCGGGAAGACCGTAATTGTGGCTGCACTGGATGGGACCTTCCAGAGGAA
GCCATTTGGGGCCATCCTGAACCTGGTGCCGCTGGCCGAGAGCGTGGTGAAGCTGACGGCGGTGTGCATGGAGTG
CTTCCGGGAAGCCGCCTATACCAAGAGGCTCGGCACAGAGAAGGAGGTGAGGTGATTGGGGGAGCAGACAAGTA
CCACTCCGTGTGTGCGCTCTGCTACTTCAAGAAGGCCTCAGGCCAGCCTGCCGGGCCGGACAACAAAGAGAACTG
CCCAGTGCCAGGXAAAGCCAGGGGAAGCCGTGGCTGCCAGGAAGCTCTTTGCCCCACAGCAGATTCTGCAATGCA
GCCCTGCCAACTGAGGGACCTGCGAGGGCCGCCCGCTCCCTTCTGCCACTGCCGCCTACTGGACGCTGCCCTGC
ATGCTGCCCAGCCACTCCAGGAGGAAGTCGGGAGGCGTXGGAGGGTGACCACACCTTGGCCTTXCTGGGAACCTCT
CCTTTGTGTGGCTGCCCCACCTGCCGCATGCTCCCTCCTCTCCTACCCACTGGTCTGCTTAAAGCTTCCCTCTCA
GCTGCTGGGACGATCGCCCAGGCTGGAGCTGGCCCCGCTTGGTGGCCTGGGATCTGGCACACTCCCTCTCCTTGG
GGTGAGGGACAGAGCCCCACGCTGTTGACATCAGCCTGCTTCTTCCCTCTGCGGCTTTCACTGCTGAGTTTCTG
TTCTCCCTGGGAAGCCTGTGCCAGCACCTTTGAGCCTTGGCCCCACACTGAGGCTTAGGCCTCTCTGCCTGGGATG
GGCTCCCACCCTCCCCTGAGGATGGCCTGGATTACGCCCTCTTGTTTCTTTTGGGCTCAAAGCCCTTCTTACC
TCTGGTGATGGTTTCCACAGGXAAACACAGCATCTTTCACCAAGATGGGTGGCACCAACCTTGCTGGGACTTGGA
TCCAGGGGCTTATCTCTTCAAGTGTGGAGAGGGCAGGGTCCACGCCTCTGCTGTAGCTTATGAAATTAACATAAT
T

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FIGURE 4989

AATCGAAAGTAGACTCTTTTCTGAAGCATTTCCTGGGATCAGCCTGACCACGCTCCATACTGGGAGAGGCTTCTG
GGTCAAAGGACCAGTCTGCAGAGGGATCCTGTGGCTGGAAGCGAGGAGGCTCCACACGGCCGTTGCAGCTACCGC
AGCCAGGATCTGGGCATCCAGGCACGGCCATGACCCCTCCGAGGCTCTTCTGGGTGTGGCTGCTGGTTGCAGGAA
CCCAAGGCGTGAACGATGGTGACATGCGGCTGGCCGATGGGGGCGCCACCAACCAGGGCCGCTGGAGATCTTCT
ACAGAGGCCAGTGGGGCACTGTGTGTGACAACCTGTGGGACCTGACTGATGCCAGCGTCGTCTGCCGGGCCCTGG
GCTTCGAGAACGCCACCCAGGCTCTGGGCAGAGCTGCCTTCGGGCAAGGATCAGGCCCCATCATGCTGGACGAGG
TCCAGTGCACGGGAACCGAGGCCTCACTGGCCGACTGCAAGTCCCTGGGCTGGCTGAAGAGCAACTGCAGGCACG
AGAGAGACGCTGGTGTGGTCTGCACCAATGAAACCAGGAGCACCCACACCCTGGACCTCTCCAGGGAGCTCTCGG
AGGCCCTTGGCCAGATCTTTGACAGCCAGCGGGGCTGCGACCTGTCCATCAGCGTGAATGTGCAGGGCGAGGACG
CCCTGGGCTTCTGTGGCCACACGGTCATCTGACTGCCAACCTGGAGGGCCAGGCCCTGTGGAAGGAGCCGGGCA
GCAATGTCACCATGAGTGTGGATGCTGAGTGTGTGCCATGGTCAGGGACCTTCTCAGGTACTTCTACTCCCGAA
GGATTGACATCACCTGTCTGTCAGTCAAGTGCTTCCACAAGCTGGCCTCTGCCTATGGGGCCAGGCAGCTGCAGG
GCTACTGCGCAAGCCTCTTTGCCATCCTCTCCCCAGGACCCCTCGTTCCAGATGCCCTGGACCTGTATGCCT
ATGCAGTGGCCACAGGGGACGCCCTGCTGGAGAAGCTCTGCCTACAGTTCTGGCCTGGAACCTTCAGGCCTTGA
CGCAGGCCGAGGCCTGGCCAGTGTCCCCACAGACCTGCTCCAAGTGTGCTGCCAGGAGCGACCTGGCGGTGC
CCAGCGAGCTGGCCCTACTGAAGGCCGTGGACACCTGGAGCTGGGGGAGCGTGCTCCCATGAGGAGGTGGAGG
GCTTGGTGGAGAAGATCCGCTTCCCCATGATGCTCCCTGAGGAGCTCTTTGAGCTGCAGTTCAACCTGTCCCTGT
ACTGGAGCCACGAGGCCCTGTTCCAGAAGAAGACTCTGCAGGCCCTGGAATTCCACACTGTGCCCTTCCAGTTGC
TGGCCCGGTACAAAGGCCTGAACCTCACCGAGGATACCTACAAGCCCCGGATTTACACCTCGCCCACCTGGAGTG
CCTTTGTGACAGACAGTTCCCTGGAGTGCACGGAAGTCACAAGTGGTCTATCAGTCCAGACGGGGGCCCTTTGGTCA
AATATTCTTCTGATTACTTCCAAGCCCCCTCTGACTACAGATACTACCCCTACCAGTCCCTTCCAGACTCCACAAC
ACCCAGCTTCTCTTCCAGGACAAGAGGGTGTCTTGGTCCCTGGTCTACCTCCCCACCATCCAGAGCTGCTGGA
ACTACGGCTTCTCCTGCTCCTCGGACGAGCTCCCTGTCTTGGGCCTCACCAAGTCTGGCGGCTCAGATCGCACCA
TTGCTACGAAAAACAAAGCCCTGATGCTCTGCGAAGGGCTCTTTCGTGGCAGACGTCACCGATTTTCAGGGCTGGA
AGGCTGCGATTCCAGTGCCCTGGACACCAACAGCTCGAAGAGCACCTCCTCCTTCCCCTGCCCGGCAGGGCACT
TCAACGGCTTCCGCACGGTCATCCGCCCTTCTACCTGACCAACTCCTCAGGTGTGGACTAGACGGCGTGGCCCA
AGGGTGGTGAGAACCGGAGAACCCAGGACGCCCTCACTGCAGGCTCCCTCCTCGGCTTCTTCTCTCTGCAA
TGACCTTCAACAACCGGCCACCAGATGTGCGCCCTACTCACCTGAGCGCTCAGCTTCAAGAAATTACTGGAAGGCT
TCCACTAGGGTCCACCAGGAGTTCTCCACACCTCACCAGTTTCCAGGTGGTAAGCACCAGGACGCCCTCGAGG
TTGCTCTGGGATCCCCCACAGCCCCTGGTCAGTCTGCCCTTGTCACTGGTCTGAGGTCATTAAATTACATTGA
GGTTCCTA

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FIGURE 4990

MTPPRLFWVWLLVAGTQGVNDGDMRLADGGATNQGRVEIFYRGQWGTVCNLDLTDASVVCRALGFENATQALG
RAAFGQGSGPIMLDEVQCTGTEASLADCKSLGWLKSNCRHERDAGVVCTNETRSTHTLDLSRELSEALGQIFDSQ
RGCDLSISVNVQGEDALGFCGHTVILTANLEAQALWKEPGSNVTMSVDAECVPMVRDLLRYFYSSRRIDITLSSVK
CFHKLASAYGARQLQGYCASLFAILLPQDPSPQMPLDLYAYAVATGDALLEKLCLQFLAWNFEALTQAEAWPSVP
TDLLQLLLPRSDLAVPSELALLKAVDTSWGERASHEEVEGLVEKIRFPMMLPEELFELQFNLSLYWSHEALFQK
KTLQALEFHTVPFQLLARYKGLNLTEDTYKPRIYTSPTWSAFVTDSSWSARKSQLVYQSRXGAFGQIFF

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FIGURE 4991

GTGCCTCCCATGAGGAGGTGGAGGGCTTGGTGGAGAAGATCCGCTTCCCATGATGCTCCCTGAGGAGCTCTTTG
AGCTGCAGTTCAACCTGTCCCTGTACTGGAGCCACGAGGCCCTGTTCCAGAAGAAGACTCTGCAGGCCCTGGAAT
TCCACACTGTGCCCTTCCAGTTGCTGGCCCGGTACAAAGGCCTGAACCTCACCAGGATACCTACAAGCCACGGA
AGTCACAACCTGGTCTATCAGTCCAGACGGGGGCTTTGGTCAAATATTCTTCTGATTACTTCCAAGCCCCCTCTG
ACTACAGATACTACCCCTACCAGTCCTTCCAGACTCCACAACACCCCAGCTTCCTCTTCCAGGACAAGAGGGTGT
CCTGGTCCCTGGTCTACCTCCCCACCATCCAGAGCTGCTGGAACCTACGGCTTCTCCTGCTCCTCGGACGAGCTCC
CTGTCTTGGGCCTCACCAAGTCTGGCGGCTCAGATCGCACCATTTGCCTACGAAAACAAAGCCCTGATGCTCTGCG
AAGGGCTCTTCGTGGCAGACGTCACCGATTTTCGAGGGCTGGAAGGCTGCGATTCCAGTGCCCTGGACACCAACA
GCTCGAAGAGCACCTCCTCCTTCCCCTGCCCGGCAGGGCACTTCAACGGCTTCCGCACGGTCATCCGCCCCCTTCT
ACCTGACCAACTCCTCAGGTGTGGACTAGACGGCGTGGCCCAAGGGTGGTGAGAACCGGAGAACCCCAGGACGCC
CTCACTGCAGGCTCCCCTCCTCGGCTTCCTTCCTCTCTGCAATGACCT

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FIGURE 4992A

TGCTCCCTCCAAATCCAAGTCCAGCAGTTCTCTCTTCTCCACGTATCTCTCTTCTCAGATGAAGAGGA
TGACAGTGACTTAGATGCTAAGAGGGGTCCCCGGGGCCGCGAGACCCACCCAGTGCCGCAGAAGAAGGCCAGAT
CCTGGTGGCCAAACCCGAGCTGAAGGATCCCATCCGGAAGAAGCGGGGACGAAAGCCCCTGCCCCAGAGCAAAA
GGCAACCCGAAGACCCGTGAGCCTGGCCAAGGTGCTGAAGACCGCCGGAAGGATCTGGGGGCCCCGGCCAGCAA
GCTGCCCCCTCCACTCAGCGCCCCCGTTGCAGGCCTGGCAGCTCTGAAGGCCACGCCAAGGAGGCCTGTGGCGG
CCCCAGTGCCATGGCCACCCAGAGAACCCTGGCCAGCCTAATGAAGGGCATGGCCAGTAGCCCCGGCCGGGGTGG
CATCAGCTGGCAGAGCTCCATCGTGCCTACATGAACCGGATGACCCAGAGCCAGGCCAGGCTGCCAGCAGGTT
GGCGCTGAAGGCCAGGCCACCAACAAGTGCAGCCTCGGGCTGGACCTGAAGGTGAGGACGCAGAAAGGGGAGCT
GGGAATGAGCCCTCCAGGAAGCAAAATCCCGAAGGCCCCAGCGGTGGGGCTGTGGAGCAGAAAGTGGGGAACAC
AGGGGGCCCCCGCACACCCATGGTGGCAGCAGGGTGCCTGCTGGGTGCCAGGCCCCAGCCAGCACCCACCCA
GGAGCTGAGCCTCCAGGTCTTGGACTTGACAGAGTGTCAAGAATGGCATGCCCGGGGTGGGTCTCTTGCCCGCCA
CGCCACCGCCACCAAGGGTGTCCCGGCCACCAACCCAGCCCCCTGGGAAGGGCACTGGGAGTGGCCTCATTGGGGC
CAGCGGGGCCACCATGCCACCGACACAAGCAAAAGTGAGAAGCTGGCTTCCAGAGCAGTGGCGCCACCCACCCC
TGCCAGCAAGAGGGACTGTGTCAAGGGCAGTGCTACCCCCAGTGGGCAGGAGAGCCGCACAGCCCCGGAGAAGC
CCGCAAGGGCGGCCACACTGCCAGAGATGAGCGCAGGTGAGGAGAGTAGCAGCTCGGACTCCGACCCCGACTCCGC
CTCGCCGCCCAGCACTGGACAGAACCCGTCACTGTCCGTTTACAGACAGCCAGGACTGGAAGCCCACCCGCAGCCT
CATCGAGCAGTATTTGTCACCGACGTCACTGCCAACCTCATCACCGTCACAGTGAAGGAGTCTCCACCAGCGT
GGGCTTCTTCAACCTGAGGCATTACTTGAAGCCCCGGCGCCACCAGCTGCGCGGTCTTACTCCCCCTCCCTGCCTA
TGGTGTGCTTGGCTAAGTGACTCCAGCCCCAAGCCCCCTCAAGAGTCTGGGTGGGGGAGGAGGAGTGGGTGGC
CTCCTTGATGGGCAGGCTTGGAAGGGACTTCTCCCGCACCCCACTCTGTCCCAGGACATAGGGCAGGGGGCCTCA
CTGCCTTGTGGTCTCCACCTTGTTCCTACCTCTGCAGGCCTCTTTGCTCTCCCCCTCTTGCTCAGGAAACCCGG
TGGCAGCTGTGGCTCCAGGTGACTGTCTTGAACAGAGCGGGCTTCTTCATGGCTGCGTTGTTGCTGAGTTTGAAC
TGCTCCTCCCTGGCCTGCGTGACTGAATCACAGCTTTGGTCCCTGTCTTGAGGGGCTGAGGTGTGAGGAGGGGA
CTTCTGGCCACCTTGCCCTTACGCCCTGGAGTGGGCAGAGAGTATTGTGGGGAGGCATGGCCAGTGGGACTAGTG
TTCCCTCCATCTGGCCACAGCTTTTGGGAGATGGGGTGGGCAGGGGTGGTCTGGCTGGCATTGCTGAGCCGGC
AGTGATGAAGTGGGGAGCTTGCCCTTGACAGGTGGGGGCTGGCTGGGGCCTTAATGTGAAAAGACAGTGGCAGGC
AGCTGGAGTAGAGCGAGCCAGCAGCCCTAAAGGCTGCCTTCATGGCCATCTAGCCCCAGTTTACGGGCAGCATC
CATAGCCACAAGCCAGCGTGGGTGGGGCGGGGTGGTCCACAGCTGGGTTCACCTGAAGAGCCTCCGTGCCT
CGGAGCAGGAGAGGCAGGCTATGGCTGCCACCCTCCCTCCTGCCTGTGTCCCAGTGAGAACTGACCTGAGTCCCC
TTCCAAACCCAGACCCACCTCCTGCCCCAGGCCCACTGAAGCATGTTCCATTTCTAAAAAGCCCAGAGTTTCACTG
TGTCCTCAAGGAAAACCCAAAGTGGAGGTGCTCAGGTCCAGGGGAGTCCAGTGGGCAGGACCCCTTGGCAGGCAAGC
CCCTCCCTTCACTCCAGGACCTACCTTCTGCTAGTAAAGGACTGGCTTCAATTCTAATTATGGCCCCACAGACTGC
CCGGAGACCTGGAGGACAGCAGTGTGGCACTGGGTGTCCATGGGCCCGTCTGCCGGCTCTGCCTGTGCTGCA
AGTGTGGCCGTGGGTCCAGCCAACAACCTCCCTACGTCTGTGTGGGGCCCTGCCCAAGTGGATGAGGCATTCTT
TGAGGAGTATCATTTTCCCTGACAATCCCCATCACCTTTAGGGGTTCCCTGCTTGGCTCCTTTCCAGCTGAAAAA
CTAGACCTGTGCCATTGGGGAAGCTGGACAAAGTCTAGGGGGCCCGCTGGTAGAGGGTCCCGGGAAGCTGGATC
TGTCAGCCTCGGCCCTGAGGCCCTGTAACTCAAGACTGTGAGCTGCCTCTAGGTGGTCACGTCTGGGAGCTAG
CTTGATGGCTTCTGACCAGTATCAGGATTTCTGTCTGAGAGCAGCGTGGGCAGCAAGGCAGGGCAGCCAGAG
GTGGCAGCGGCAGGCAATCTGGTCACTAGGTCTTTGTGATGCCAAAAATAAAGAGGGTGGGGTGGGTGCTTTCT
GTTCTCTGATTGGATGGAGTCCGCCAGCAGGCATGGGGCTACATTCCAGTGCCTGACTATAGGGAGGCACTCCT
GATTCCATGGAGCAGCCCGGACTTTGAGAATGGGCTCTGGTTTGCGGGGGCAGGCGTACCAGACTGCAAGACCC
CCAGTACCTCACCGTGCCAAATAGGAAGAGGTGGCCTTGGTGTAGCCAAATGGATCTTTTTAAGAGTGTGCCTT
TGGGGAGGGACCCATGTCCATGGCTTCGTTGAGGGCCATCCATATGCCAGCTGGGGGCCAGCCACAGTGGCCAT
ATTGGCTGCAGCAGGAATGGTGGCCACCTCGGCCGAATTGAAGGGCTAAGAGTCCAGATAGCTAGGCCAGAGCTG
GAAGCAGACAGTAAGGGGAAGAGCTGCTCCACAGAAGAGGGAGAGATTCCAGCTCACTGCGCAGCCTGGGAGGA
GGCGTGGATCCTGGCAGCTGAGCCTCAGGCACCAGCCTCCCTGTGCTCGACAGCAAAGTCTTGACTCCTTCCCTG
CTGAGCACTGTGCTACCTTCACTGCTCCAAAGCCAGACTAACAGCTCTCCAAGCCCTTGGGGTGAAGCTGGCTTCC
AGGAGCTGTTGGAGAAATGAGGATGTCTGTCCCTGTCTGCCTGGGCAGGCCAGATTCTCCCCAGCAGCCGGTCT

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FIGURE 4992B

TCTCCAGACCCTGATTCGGTGCCTTTCTGTTTACCAGCTACTTCAATCCCAAAGTTTGAATCTGCAGATACCTTA
CTCCCAGCCACTTTGCCTTCTTACTGTGTTGTGTGTTTTTCCCTGGTGCTTCAAGAGCGTGTGCAGGGCAAGTGCC
GTCAGTGGGAACTGCACCAGATGCTCAGACTTGGTTGTCTTATGTTTACCAATAAATAAAAGTAGACTTTTTCTA
TTTTTATTTGCTGCTATTTGTGTGTGTGTTTGTGTTTGTGTAGCTAGGTATCTGCACTTCTGACGATGCATTGTT
GCTTTTTTCCCGAAGTCCCGCAGGAACTGTGGCAATGGTGTGTGTGTGAAATGGTGTGTTAACCGCGTTTTGTTT
GCTCCTGTATTGAATAGGAAGCAGTGGCCAGTCTGTCTTCCTTAGAGATGTTAGCATATTTTTATATGTATATAT
TTTGTACCAAAAAAGAGTGTTTCCTTGTTTTGGTTACACTCGAAATCTGACCTAGCTGGAGAGGGCTCTGGGCCG
AGAGCTTTCACCTAAGGGGAGACTTCAGGGGAGGATCAAGCTTTGAACCAAAGCCAATCACTGGCTTGATTTGTGT
TTTTTAATTAAAAAAAATCATTCAATGTATGCCACTTCTAA

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FIGURE 4993

MATPENLASLMKGMASSPGRGGISWQSSIVHYMNRMTQSQAQAASRLALKAQATNKCGLGLDLKVRTQKGELGMS
PPGSKIPKAPSGGAVEQKVGNTGGPPHTHGASRVPA GCPGPAPPTQELSLQVLDLQSVKNGMPGVGLLARHATA
TKGV PATNPAPGKGTG SGLIGASGATMPTDTSKSEKLASRAVAPPTPASKRDCVKGSATPSGQESRTAPGEARKA
ATLPEMSAGEESSSSDSDPDSASPPSTGQNPSVSVQTSQDWKPTRSLIEHVFTDVTANLITVTVKESPTSVGFF
NLRHY

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FIGURE 4994A

GCGCCTGCGCGGGAGGCCGCGTCACGTGACCCACCGCGGACCCGCCCCGCGACGAGCTCCCGCCGGTACAGTGAC
CCGCCTCTGCGCGCCCCCGGGCACGACCCCGGAGTCTCCGCGGGCGGCCAGGGCGCGCGTGC GCGGAGGTGAGCC
GGGCCGGGGCTGCGGGGCTTCCCTGAGCGCGGGCCGGGTGCGTGGGGCGGTGCGCTGCCCGCGCGGCCTCTCAGT
TGGGAAAGCTGAGGTTGTGCGCCGGGGCCGCGGGTGGAGGTGCGGGGATGAGGCAGCAGGTAGGACAGTGACCTCGG
TGACGCGAAGGACCCCGGCCACCTCTAGGTTCTCCTCGTCCGCCCCGTGTTCAGCGAGGGAGGCTCTGCGCGTGC
CGCAGCTGACGGGGAAACTGAGGCACGGAGCGGGCCTGTAGGAGCTGTCCAGGCCATCTCCAACCATGGGAGTGA
GGCACCCGCCCCTGCTCCCACCGGCTCCTGGCCGTCTGCGCCCTCGTGTCTTGGCAACCGCTGCACTCCTGGGGC
ACATCCTACTCCATGATTTTCTGCTGGTTCCCCGAGAGCTGAGTGGCTCCTCCCCAGTCTGGAGGAGACTCACC
CAGCTCACCAGCAGGGAGCCAGCAGACCAGGGCCCCGGGATGCCAGGCACACCCCGGCCGTCCCAGAGCAGTGC
CCACACAGTGCGACGTCCCCCCCAACAGCCGCTTCGATTGCGCCCTGACAAGGCCATCACCAGGAACAGTGCG
AGGCCCCGCGGTGTGTGCTACATCCCTGCAAAGCAGGGGCTGCAGGGAGCCAGATGGGGCAGCCCTGGTGCTTCT
TCCCACCCAGCTACCCAGCTACAAGCTGGAGAACCTGAGCTCCTCTGAAATGGGCTACACGGCCACCCTGACCC
GTACCACCCCCACCTTCTTCCCAAGGACATCCTGACCCTGCGGCTGGACGTGATGATGGAGACTGAGAACCGCC
TCCACTTCACGATCAAAGATCCAGCTAACAGGCGCTACGAGGTGCCCTTGGAGACCCCGCATGTCCACAGCCGGG
CACCGTCCCCACTCTACAGCGTGGAGTTCTCCGAGGAGCCCTTCGGGGTGATCGTGCGCCGGCAGCTGGACGGCC
GCGTGCTGCTGAACACGACGGTGGCGCCCTGTTCTTTGCGGACCAGTTTCTTCAGCTGTCCACCTCGCTGCCCT
CGCAGTATATCACAGGCCTCGCCGAGCACCTCAGTCCCCTGATGCTCAGCACCAGCTGGACCAGGATCACCCTGT
GGAACCGGGACCTTGCGCCACGCCCCGTGCGAACCTCTACGGGTCTCACCCTTTCTACCTGGCGCTGGAGGACG
GCGGGTCGGCACACGGGGTGTTCCTGCTAAACAGCAATGCCATGGATGTGGTCTCGAGCCGAGCCCTGCCCTTA
GCTGGAGGTGACAGGTGGGATCCTGGATGTCTACATCTTCTGGGCCCAGAGCCCAAGAGCGTGGTGCAGCAGT
ACCTGGACGTTGTGGGATACCCGTTTCATGCCGCCATACTGGGGCCTGGGCTTCCACCTGTGCCGTGGGGCTACT
CCTCCACCGCTATCACCCGCCAGGTGGTGGAGAACATGACCAGGGCCCACTTCCCCCTGGACGTCCAGTGGAACG
ACCTGGACTACATGGACTCCCCGAGGGACTTCACGTTCAACAAGGATGGCTTCCGGGACTTCCCGGCCATGGTGC
AGGAGCTGCACCAGGGCGGCCGCGCTACATGATGATCGTGGATCCTGCCATCAGCAGCTCGGGCCCTGCCGGGA
GCTACAGGCCCTACGACGAGGGTCTGCGGAGGGGGGTTTTTCATACCAACGAGACCGGCCAGCCGTGATTGGGA
AGGTATGGCCCCGGGTCCACTGCCTTCCCCGACTTCACCAACCCACAGCCCTGGCCTGGTGGGAGGACATGGTGG
CTGAGTTCCATGACCAGGTGCCCTTCGACGGCATGTGGATTGACATGAACGAGCCTTCCAACCTTCATCAGGGGCT
CTGAGGACGGCTGCCCAACAATGAGCTGGAGAACCACCCCTACGTGCCTGGGGTGGTGGGGGGACCCTCCAGG
CGGCCACCATCTGTGCCTCCAGCCACCAGTTTCTCTCCACACTACAACCTGCACAACCTCTACGGCCCTGACCG
AAGCCATCGCCTCCCACAGGGCGCTGGTGAAGGCTCGGGGGACACGCCATTGTGATCTCCCGCTCGACCTTTG
CTGGCCACGGCCGATACGCCGGCCACTGGACGGGGGACGTGTGGAGCTCCTGGGAGCAGCTCGCCTCCTCCGTGC
CAGAAATCCTGCAGTTTAACTGCTGGGGGTGCCTCTGGTTCGGGGCCGACGTCTGCGGCTTCTGGGCAACACCT
CAGAGGAGCTGTGTGCTGCGCTGGACCCAGCTGGGGGCTTCTACCCCTTCATGCGGAACCAACAGCCTGTCTCA
GTCTGCCCCAGGAGCCGTACAGCTTCAGCGAGCCGGCCAGCAGGCCATGAGGAAGGCCCTCACCCTGCGCTACG
CACTCCTCCCCACCTCTACACACTGTTCCACCAGGCCACGTGCGGGGGAGACCGTGGCCCCGGCCCCCTCTTCC
TGGAGTTCCCCAAGGACTCTAGCACCTGGACTGTGGACCACAGCTCCTGTGGGGGGAGGCCCTGCTCATCACC
CAGTGCTCCAGGCCGGGAAGGCCGAAGTGACTGGCTACTTCCCCTTGGGCACATGGTACGACCTGCAGACGGTGC
CAGTAGAGGCCCTTGGCAGCCTCCCACCCCACTGACGTCCCCGTGAGCCAGCCATCCACAGCGAGGGGCAGT
GGGTGACGCTGCCGGCCCCCTGGACACCATCAACGTCCACCTCCGGGCTGGGTACATCATCCCCCTGCAGGGCC
CTGGCCTCACAACCACAGAGTCCCGCCAGCAGCCCATGGCCCTGGCTGTGGCCCTGACCAAGGGTGGGGAGGCC
GAGGGGAGCTGTTCTGGGACGATGGAGAGAGCCTGGAAGTGCTGGAGCGAGGGGCCTACACACAGGTCACTTCC
TGGCCAGGAATAACACGATCGTGAATGAGCTGGTACGTGTGACCAGTGAGGGAGCTGGCCTGCAGCTGCAGAAGG
TGACTGTCTGGGCGTGGCCACGGCGCCCCAGCAGGTCCTCTCCAACGGTGTCCCTGTCTCCAACCTTACCTACA
GCCCCGACACCAAGGTCCTGGACATCTGTGTCTCGCTGTTGATGGGAGAGCAGTTTCTCGTCAGCTGGTGTTAGC
CGGGCGGAGTGTGTAGTCTCTCCAGAGGGAGGCTGGTTCCCCAGGGAAGCAGAGCCTGTGTGCGGGCAGCAGCT
GTGTGCGGGCCTGGGGGTTCATGTGTCACTGGAGCTGGGCACTAACCATTCCAAGCCGCCGCATCGCTGTGTTT
CCACCTCCTGGGCCGGGGCTCTGGCCCCCAACGTGTCTAGGAGAGCTTTCTCCCTAGATCGCACTGTGGGGCCGG
GCCCTGGAGGGCTGCTCTGTGTTAATAAGATTGTAAGGTTTGCCTCCTCACCTGTTGCCGGCATGCGGGTAGTA

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FIGURE 4994B

TTAGCCACCCCCCTCCATCTGTTCCCAGCACCGGAGAAGGGGGTGCTCAGGTGGAGGTGTGGGGTATGCACCTGA
GCTCCTGCTTCGCGCCTGCTGCTCTGCCCCAACGCGACCGCTGCCCCGGCTGCCAGAGGGCTGGATGCCTGCCGG
TCCCCGAGCAAGCCTGGGAACTCAGGAAAATTCACAGGACTTGGGAGATTCTAAATCTTAAGTGCAATTATTTTT
AATAAAAGGGGCATTGGAATC

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FIGURE 4995

TCGGCAGCGGCACAGCGAGGTCGGCAGCGGCACAGCGAGGTCGGCAGCGGCACAGCGAGGTCGGCAGCGGCACAG
CGAGGTCGGCAGCGGCAGCGAGGTCGGCAGCGGCACAGCGAGGTCGGCAGCGGCAGCGAGGTCGGCAGCGGCAGCG
CGCTGTGCTCTTCCGCGGACTCTGAATCATGGCGACCACGGCCACGATGGCGACCTCGGGCTCGGCGCGAAAGCG
GCTGCTCA^ΔAAGAGGAAGACATGACTAAAGTGGAATTCGAGACCAGCGAGGAGGTGGATGTGACCCCCACGTTTCA
CACCATGGGCCTGCGGGAGGACCTGCTGCGGGGCATCTACGCTTACGGTTTTGAAAAACCATCAGCAATCCAGCA
ACGAGCAATCAAGCAGATCATCAAAGGGAGAGATGTCATCGCACAGTCTCAGTCCGGCACAGGAAAAACAGCCAC
CTTCAGTATCTCAGTCCCTCCAGTGTGGATATTAGGTTTCGTGAAACTCAAGCTTTGATCTTGGCTCCCAAG
AGAGTTGGCTGTGCAGATCCAGAAGGGGCTGCTTGCTCTCGGTGACTACATGAATGTCCAGTGCCATGCCTGCAT
TGGAGGCACCAATGTTGGCGAGGACATCAGGAAGCTGGATTACGGACAGCATGTTGTGCGGGGCACTCCAGGGCG
TGTTTTTGATATGATTCGTGCGAGAAGCCTAAGGACACGTGCTATCAAAATGTTGGTTTTGGATGAAGCTGATGA
AATGTTGAATAAAGGTTTCAAAGAGCAGATTTACGATGTATACAGGTACCTGCCTCCAGCCACACAGGTGGTTCT
CATCAGTGCCACGCTGCCACACGAGATTCTGGAGATGACCAACAAGTTCATGACCGACCCAATCCGCATCTTGGT
GAAACGTGATGAATTGACTCTGGAAGGCATCAAGCAATTTTTCGTGGCAGTGGAGAGGGAAGAGTGGAAATTTGA
CACTCTGTGTGACCTCTACGACACACTGACCATCACTCAGGCGGTCACTTTCTGCAACACCAAAAGAAAGGTGGA
CTGGCTGACGGAGAAAATGAGGGAAGCCAACCTTCACTGTATCCTCAATGCATGGAGACATGCCCCAGAAAGAGCG
GGAGTCCATCATGAAGGAGTTCCGGTCGGGCGCCAGCCGAGTGCTTATTTCTACAGATGTCTGGGCCAGGGGGTT
GGATGTCCCTCAGGTGTCCCTCATTA^ΔACTATGATCTCCCTAATAACAGAGAATTGTACATACACAGAATTGG
GAGATCAGGTGATACGGCCGGAAGGGTGTGGCCATTAACTTTGTAAGAATGACGACATCCGCATCCTCAGAGA
TATCGAGCAGTACTATTCCACTCAGATTGATGAGATGCCGATGAACGTTGCTGATCTTATCTGAAGCAGCAGATC
AGTGGGATGAGGGAGACTGTTACCTGCTGTGTACTCCTGTTTGAAGTATTTAGATCCAGATTCTACTTAATGG
GGTTTATATGGACTTTCTTCTCATAAATGGCCTGCCGTCTCCCTTCCTTTGAAGAGGATATGGGGATTCTGCTCT
CTTTTCTTATTTACATGTAAATAATACATTGTTCTAAGTCTTTTTCATTAAAAATTTAAACTTTTCCCAT

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FIGURE 4996A

GACGGGCTGGGGAGGTGGTGCCAGGCTGGTTGCTAGCTGCCGCCGCTGCTCACCCCGGCCGTCCGGCCGCTTCAT
TGTCACCGGGCCTCGGGGCAGTGTGGGGGTGGCGGGGCGCCAGGTCGCCGACCCGAGGTTTGGGCGCGACTGGT
TCCGCATCCCTCCCCGCCGCGGAATCTGCAGGCCCGCGCGCCAGGCAGGCTTCGCGGCTGCGCCCCCGGCC
GCGCAGGACCTGCCTTGTCACCAATGAAAGGCACCCGGGCCATCGGCAGCGTCCCGGAGCGCACGCCAGCAGGTG
TGGACCTGAGTCTGACAGGTCTCCCTCCGCCTGTGTCCCGGCGTCTGGCAGTGCGCCACCACCAAGCCCATCGT
CCGCTCTGTCTCCGTGGTCACAGGCAGCGAGCAGAAGAGGAAGGTGCTGGAGGCCACAGGGCCTGGGGGCTCCCA
GGCCATCAACAACCTTAGGAGATCCAACAGCACCACGCAGGTGAGCCAGCCTCGGAGCGGCTCCCCCAGGCCAAC
GGAGCCCACAGACTTCTGATGCTCTTCGAGGGCAGCCCCAGTGGGAAAAAGAGGCCTGCCAGCCTGAGCACAGC
CCCCAGCGAGAAGGGAGCCACCTGGAACGTCTGGATGACCAGCCCCGGGGCTTCACCTTGCCATCCAATGCCCG
GAGTTCCAGTGCCTTGACTCACCAGCGGGCCCGGAGGAAAGAATGCACCGTGGCCCTGGCCCCAACCTTAC
TGCTAACAACAGGAGCAACAAGGGAGCAGTGGGCAACTGCGTCACCACCATGGTGCACAACCGCTACACCCCTC
GGAGAGGGCGCCTCCGCTCAAGAGCTCCAACCAGACTGCCCCCTCCCTCAACAACATCATCAAGGCAGCCACCTG
TGAGGGCAGTGAGAGCAGCGGCTTGGGAAGCTGCCGAAGAATGTCTCCAGTGCCACCCACTCAGCCCCGAACAA
TACTGGGGGCAGCACGGGCTTGCCAGGCGGAAGGAGGTGACGGAGGAGGAGGCTGAGAGGTTTATCCACCAGGT
GAACCAGGCCACTGTACCATCCAGCGCTGGTACCGGCACCAGGTGCAGCGGCGCGGAGCAGGAGCTGCCCGCCT
GGAGCACTTGCTTCAGGCCAAGCGGGAGGAGCAGCGGCAGCGGTGAGGCGAGGGGACCCCTCTTGGAACCTGCACCA
GCAGAAAGAGGCAGCCAGGAGGAAGGCCCGGGAGGAGAAGGCACGCCAAGCCAGGCGAGCAGCCATTCAGGAGCT
GCAACAGAAACGAGCCCTGAGAGCCCAGAAGGCGAGCACTGCCGAGCGTGGGCCACCTGAGAATCCAGGGAGAC
CAGAGTGCCAGGAATGCGGCAGCCTGCTCAGGAGCTGTCCCCACACCAGGCGGCACTGCCCACCAGGCCCTCAA
GGCCAACAATACTGGTGGTGGCCTCCCTGCTGCAGGCCCGGAGACCGCTGCCTGCCACCTCCGACTCATCCCC
AGAACCACAGCAGCCTCCAGAGGACAGGACGCAGGACGTTCTTGCCAGGATGCAGCTGGGGACAACCTGGAGAT
GATGGCCCCGAGCAGGGGGAGCGCCAAGTCCAGGGGGCCACTGGAGGAGCTGCTGCACACACTGCAGCTGCTGGA
GAAGGAGCCGGACGTGCTGCCCGCCCCAGGACCCATCACAGGGGCAGATACGCTTGGGCCAGCGAGGTGACCAC
GGAGGATGACGCCAGCTCTCTGACAGCTGACAACTTGAGAGAAATTTGGAAACTCAGTGCGTTCCCCGAACCTCC
TGAGGATGGGACGCTGCTATCGGAGGCCAAGCTACAAAGCATCATGAGCTTCTTGACGAGATGGAGAAGTCTGG
GCAGGACCAGCTGGACTCCAGCAGGAGGGGTGGGTGCCGAGGCGGGGCGGGGCCCTGGAGCTGGGGTCCGA
GGTGAGCACGTCTGTGATGCGGCTGAAGCTGGAGGTGGAGGAGAAGAAGCAGGCCATGCTGCTGCTGCAGAGAGC
GCTGGCGCAGCAGCGAGACCTCACGGCCCCGCGGGTCAAGGAGACAGAGAAGGCGCTGAGCCGGCAGCTGCAGCG
GCAGAGGGAGCACTACGAGGCCACCATCCAGCGGCACTTGCCCTTATTGACCAGCTGATTGAGGACAAGAAGGT
CCTGAGTGAAAAGTGCAGGCTGTGGTGGCCGAGCTGAAGCAGGAGGACCAGAGATGCACCGAGCGTGTGGCCCA
GGCACAGGCGCAGCACGAGCTGGAGATTAAAAAACTCAAAGAATTAATGAGCGCCACCGAGAAAGCCCCGCCGGGA
GAAGTGGATCAGTGAGAAAACCAAGAAGATCAAGGAGGTCACTGTCCGAGGTCTGGAGCCCGAGATCCAGAAGCT
GATTGCAAGGCACAAGCAGGAAGTGCAGGAGCTCAAGAGCCTGCACGAGGCGGAGCTGCTGCAGTCGGATGAGCG
GGCCTGCGAGCGCTGCCTGCGCCAGGCCGAGGAGCTGCGGGAGCAGCTGGAGCGGGAGAAGGAGGCGCTGGGCCA
GCAGGAGCGGAACGTGCTCGGCAGCGGTCCAGCAGCACCTGGAGCAGGAGCAGTGGGCGCTGCAGCAGCAACG
GCAGCGGTGTACAGTGAGGTGGCTGAGGAGAGGGAGCGGTGGGCCAGCAGGCAGCCAGGCAGCGGGCGGAGCT
GGAAGAGCTGAGGCAGCAGCTGGAGGAGAGCAGCTCTGCACTGACCCGAGCCCTGAGGGCTGAGTTTGAGAAGGG
CAGGGAGGAGCAGGAGCGCCGGCACCAAGATGGAGCTGAATACCCTGAAGCAGCAGCTGGAGCTGGAGAGGCAGGC
GTGGGAGGCCGCGCCACCAGGAAGGAGGAGGCGTGGCTGCTGAACCGGGAACAGGAGCTGAGGGAAGAAATCCG
GAAAGGCCGGGACAAGGAGATTGAGCTGGTCATTACCGGCTGGAGGCCGACATGGCGCTGGCCAAGGAGGAGAG
TGAGAAGGCTGCCGAGAGCCGCATCAAGCGCTTACGGGACAAGTACGAGGCCGAGCTCTCCGAGCTGGAGCAGTC
GGAGCGGAAGCTTCAGGAGCGGTGCTCGGAGCTGAAGGGCCAGCTTGGGGAGGCCGAGGGCGAGAATCTGCGTCT
GCAGGGCCTTGTCGGCAGAAGGAGCGGGCGCTGGAGGATGCGCAGGCGGTGAACGAGCAGCTTTCTAGCGAGCG
CAGCAACCTGGCCAGGTGATCCGCCAGGAGTTCGAGGACCGGTGGCAGCCTCTGAGGAGGAGACGCGGCAGGC
CAAGGCCGAGCTGGCCACGCTGCAGGCCCCGCCAGCAGCTGGAGCTGGAGGAGGTGCACCGGAGGGTGAAGACAGC
CCTCGCGAGGAAGGAGGAGGCGGTGAGCAGCCTCCGGACACAACATGAGGCTGCGGTGAAGCGGGCCGACCACCT
GGAGGAGCTGCTGGAGCAGCACAGGAGGCCACGCCAAGTACCAAGTGACCAGGGATGCCGGGAACACTGTGAA
GAACGGAAGGCAGAGGACAGAGGCTGGACGTGGGCCAGAGGCCACAGGGACGCCCACCTGCCCCCACAGAGG

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FIGURE 4996B

CTGGTGGTTGAGATGCCCACGGCTAAGCACCTGTGGCTGCATTTTAACAGTAAAGGAGGCCGTTGTTTTTC

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FIGURE 4997

MKGTRAIGSVSPERSPAGVDLSLTGLPPPVSRRPGSAATTKPIVRSVSVVTGSEQKRKVLEATGPGGSQAINNLRR
SNSTTQVSQPRSGSPRPTEPTDFLMLFEGSPSGKKRPASLSTAPSEKGATWNVLDDQPRGFTLPSNARSSSALDS
PAGPRRKECTVALAPNFTANNRSNKGAVGNCVTTMVHNRYTPSERAPPLKSSNQ TAPSLNNIIKAATCEGSESSG
FGKLPKNVSSATHSARNNTGGSTGLPRRKEVTEEEAERFIHQVNQATVTIQRWYRHQVQRRGAGAARLEHLLQAK
REEQRQRSGEGLTLLDLHQKEAARRKAREEKARQARRAAIQELQQKRALRAQKASTAERGPPENPRETRVPGMRQ
PAQELSPTPGGTAHQALKANNTGGGLPAAGPGDRCLPTSDSSPEPQQPPEDRTQDVLAQDAAGDNLEMMAPSRGS
AKSRGPLEELLHTLQLEKEPDVLP RP RTHHRGRYAWASEVTTEDDASSLTADNLEKFGKLSAFPEPPEDGTLLS
EAKLQSIMSFLDEMEKSGDQLDSQQEGWVPEAGPGPLELGSEVSTSVMRLKLEVEEKKQAMLLLQRALAQQRDL
TARRVKETEKALSRQLQRQREHYEATIQRHAFIDQLIEDKKVLSEKCEAVVAELKQEDQRCTERVAQAQAQHEL
EIKKLKELMSATEKARREKWISEKTKKIKEVTVRGLEPEIQKLIARHKQEVRRKLSLHEAELLQSDERASQRCLR
QAEELREQLEREKEALGQQRERARQRFQQHLEQEQWALQQQRORLYSEVAEERERLGQQAARQRAELEELRQQL
EESSALTRALRAEFKGRREEQERRHQMELNTLKQQLERQAWAAGRTRKEEAWLLNREQELREEIRKGRDKEI
ELVIHRLEADMALAKEESEKAAESRIKRLRDKYEAELSELEQSERKLQERCSELKGQLGEAEGENLRLQGLVRQK
ERALEDAQAVNEQLSSERSNLAQVIRQEFEDRLAASEEETROAKAELATLQARQQLELEEVHRRVKTALARKEEA
VSSLRTQHEAAVKRADHLEELLEQHRRPTPSTK

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FIGURE 4998

CAGGTGAGGCGGAACCAACCCTCCTGGCCATGGGAGGGGGCCGTGGTGGACGAGGGCCCACAGGCGTCAAGGCCCT
GACGGCGGCTGGGCGTGAGGCGTGCTCTTCGGCTGTTTCGTCACTACTGGCTTCTCCTACGCCCTTCCCCAAGGCC
GTCAGTGTCTTCTTCAAGGAGCTCATAACAGGAGTTTGGGATCGGCTACAGCGACACAGCCTGGATCTCCTCCATC
CTGCTGGCCATGCTCTACGGGACAGGTCCGCTCTGCAGTGTGTGCGTGAACCGCTTTGGCTGCCGGCCCCGTCATG
CTTGTTGGGGGGTCTCTTTGCGTCGCTGGGCATGGTGGCTGCGTCCCTTTTGCCGGAGCATCATCCAGGTCTACCTC
ACCACTGGGGTCATCACGGGGTTGGGTTTGGCACTCAACTTCCAGCCCTCGCTCATCATGCTGAACCGCTACTTC
AGCAAGCGGCGCCCCATGGCCAACGGGCTGGCGGCAGCAGGTAGCCCTGTCTTCTGTGTGCCCTGAGCCCGCTG
GGGCAGCTGCTGCAGGACCGCTACGGCTGGCGGGGCGGCTTCCTCATCCTGGGCGGCCTGCTGCTCAACTGCTGC
GTGTGTGCCGCACTCATGAGGCCCTGGTGGTCACGGCCCAGCCGGCTCGGGGCAGCCGCGACCCTCCCGGCGCC
TGCTAGACCTGAGCGTCTTCCGGGACCGCGGCTTTGTGCTTTACGCCGTGGCCGCCTCGGTGATGGTGTGTTGGG
TCTTCGTCCCGCCCGTGTTCGTGGTGATGACGCCAAGGACCTGGCGTGCCCGACACCAAGGCGCCTTCTGTCTCA
CCATCCTGGGCTTCATTGACATACTTACGCCCCGCGGGCTTCGTGCGGGGCTTGGAAGGTGCGGCCCTATCCG

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FIGURE 4999

GCGGGCGGGCGGCTCGGAGTCGCCGGGAGCTGCCAGGCTGCTCCGCGCGCCGCTGCGGGGGCCATGATCCGGAAC
GGGCGCGGGGCTGCAGGCGGGCGCAGAGCAGCCGGGCCCCGGGGGCGAGGCGCGCCGTGAGGGTGTGGTGCGATGGC
TGCTATGACATGGTGCAATTACGGCCACTCCAACCAGCTGCGCCAGGCACGGGGCCATGGGTGACTACCTCATCGTA
GGCGTGACACCCGATGAGGAGATCGCCAAGCACAAGGGGCCCCCGGTGTTCACTCAGGAGGAGAGATACAAGATG
GTGCAGGCCATCAAAATGGGTGGACGAGGTGGTGCCAGCGGCTCCCTACGTCACTACACTAGAGACCCTGGACAAA
TACAACTGTGACTTCTGTGTTACGGCAATGACATCACCTGACTGTAGATGGCCGGGACACCTATGAGGAAGTA
AAGCAGGCTGGGAGGTACAGAGAATGCAAGCGCACGCAAGGGGTGTCCACCACAGACCTCGTGGGCCGCGATGCTG
CTGGTAACCAAAAGCCCATCACAGCAGCCAGGAGATGTCTCTGAGTACCGGGAGTATGCAGACAGTTTTGGCAAG
TGCCCTGGTGGGCGGAACCCCTGGACCGGGGTATCCAGTTCTCTGCAGACATCTCAGAAGATCATCCAGTTTGCT
TCTGGGAAGGAGCCCCAGCCAGGGGAGACAGTCATCTATGTGGCTGGTGCCTTCGACCTGTTCCACATCGGGCAT
GTGGACTTCTTGAGAAGGTGCACAGGCTGGCAGAGAGGCCCTACATCATCGCGGGCTTACACTTTGACCAGGAG
GTCAATCACTACAAGGGGAAGAACTACCCCATCATGAATCTGCATGAACGGACTCTGAGCGTGTGGCCTGCCGG
TACGTGTCAGAAGTGGTGATTGGAGCCCCGTACGCGGTACAGCAGAGCTCCTAAGTCACTTCAAGGTGGACCTG
GTGTGTCACGGCAAGACAGAAATTATCCCTGACAGGGATGGCTCCGACCCATAACCAGGAGCCCAAGAGAAGGGC
ATCTTCCGTCAGATTGACAGTGGCAGCAACCATACCAAAGACTCATCGTCAGCGGATTATCACAAACAXXXXXX
XXXXXGAGGCGCTAAACGAGAAGAAGGAAGCCAAGGAGCTCGCCTTCTGGAGGTGCCAGGCAGCAGGCGCACAG
CCCTGGGGAGCGCGATGGTACTTCTAACCTGGCAGAGCCCTGCCGGCCCTCCCCCTGCTCTGCTTCTGCGCCTTC
TGCGTTTGGACATAGGACTCTGCAGGGCCGCCCTCTCTAACTGGCCTGGCTCTGGAAGGGCTGGTGAGGACTCTG
CCTCCTTGCTGCCTACAAGGTGCCTGGTTTGCAGCAGGCTCTCCGCTCTTTCCAGCAAAGCTGCTCAGAGAGGG
TGTCCAGCACAGTGGAGAGGCCGGAAGTGAGACGGGCAGACGGCACCTGCAGCCTGAAACGCACCGCTCCTGCGT
GCGCCCCACCTGGTCCCCGGATGCCCCACCACCTGGACAGAGGCCACACTGACTGCCCACCCAGCTGTGGCGG
GAGGTGCAGAGCAGAGGGCTTTAGGGAGCAGTGACTGCGGTACCCCTTTAGTTCTCTGGGTGTAGACCACACCA
CCTCCCCTGAGGACCCCCCAACACGGTGTCTGCCACCCAGCGCCTGGCTCCAGGAAAACACGCTTGCCTTCCT
TCCCGGCAGCTTCGCCACTCTCCTTATGGACTCTGTTCTGTTTGTACATGGCTGACGGAAATCTCTTTGGTACAA
CCGAATAAAGCCTGGTGGCAGTGCTGCGCGGGGCTCCAGCC

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FIGURE 5000

TGACCTGACCTCTCTCCTCTCCCCCTCACCTCCTGCCCCCTGGCCACTGCAGGATCAGGAGGGGAGAAGAAGGAGC
CTCTGCTGCCTCCCAGGCTGCTGGGACTGGGCTGGTTTTGTCTTGAAGTGGTCAGGATACAGGACAAGGGCAGC
CCCACCCCATCCAGCCTGGGCTCCCCGCAGACCCCTTGCTGCTCCCGTGGCCTGGACA'CGCTGGGGAGCTTCTCAC
ACCTACCCAGGCTGACCCTGAGGTGCTGCTGCTGGGTCTGTCTTGGCTCTGGGGTGTGCTGGGAGGGTCACCAG
GTCCCTTTTCCTTCCTGTGCCCTCTGAAAGCTAAGTGTCTGTGTGGCTGTGGAGCTCGAGGGTCTGTGAATAAAG
GCGGCGGCACTGGG

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FIGURE 5001

CCCCTACACACCGTCCGTTACCCCCGTCTCTTCCTTCTGCTTTTTCGGTTTTTGGAAGGGATCCATCTCCAGGC
AGCCCACCCTGGTGGGGCTTGTTTCCTGAAACCATGATGTACTTTTTCATACATGAGTCTGTCCAGAGTGCTTGC
TACCGTGTTTCGGAGTCTCGCTGCCTCCCTCCCGCGGGAGGTTTCTCCTCTTTTGGAAATTCCGCTCTGTGGGATT
TTTAGACATTTTTCGACATCAGGGGTGTCCCCATGCCTGGAAGAGGAGCTGGTGGCTGCCAGCCCTGGGGCCCG
GCACAGGCCTGGGCCTTCCCCTTCCCTCAAGCCAGGGCTCCTCCTCCTGTCGTGGGCTCATTGTGACCACTGGCC
TCTCTACAGCACGGCCTGTGGCCTGTTCAAGGCAGAACCACGACCCTTGACTCCCGGGTGGGGAGGTGGCCAAGG
ATGCTGGAGCTGAATCAGACGCTGACAGTTCTTCAGGCATTTCTATTTACAATCGAATTGAACACATTGGCCAA
ATAAAGTTGAAATTTT

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FIGURE 5002

GGCACGAGGGGGCGGCCGACGACGTTTCGTCAATTTAGTGCGGGAGGGATCCTGAACCGCGCGGCCGAACCCCTCCGG
TGTCCCGACCCAGGCTAAGCTTGAGCATGGCTGAGCAGGAGCCCCACAGCCGAGCAGCTGGCCAGATTGCAGCGG
AGAACGAGGAGGATGAGCACTCGGTCAACTACAAGCCCCCGGCCAGAAAGAGCATCCAGGAGATCCAGGAGCTGG
ACAAGGACGACGAGAGCCTGCGAAAGTACAAGGAGGCCCTGCTGGGCCGCGTGGCCGTTTCCGCAGACCCCAACG
TCCCCAACGTCGTGGTGACTGGCCTGACCCTGGTGTGCAGCTCGGCCCGGGCCCCCTGGAGCTGGACCTGACGG
GCGACCTGGAGAGCTTCAAGAAGCAGTCGTTTGTGCTGAAGGAGGGTGTGGAGTACCGGATAAAAAATCTCTTTCC
GGGTAAACCGAGAGATAGTGTCCGGCATGAAGTACATCCAGCATACGTACAGGAAAGGCGTCAAGATTGACAAGA
CTGACTACATGGTAGGCAGCTATGGGCCCGGGCCGAGGAGTACGAGTTCTGACCCCGTGGAGGAGGCACCCA
AGGGTATGCTGGCCCCGGGGCAGCTACAGCATCAAGTCCCGCTTACAGACGACGACAAGACCGACCACCTGTCCT
GGGAGTGAATCTCACCATCAAGAAGGACTGGAAGGACTGAGCCAGCCAGAGGCGGGCAGGGCAGACTGACGGA
CGGACGACGGACAGGCGGATGTGTCCCCCAGCCCCCTCCCTCCCCATACCAAAGTGCTGACAGGCCCTCCGTG
CCCCCCCCACCTGGTCCGCTCCCTGGCCTGGCTCAACCGAGTGCCTCCGACCCCCCTCCTCAGCCCTCCCCCA
CCCACAGGCCCAGCCTCCTCGGTCTCCTGTCTCGTTGCTGCTTCTGCCTGTGCTGTGGGGGAGAGAGGCCGCAGC
CAGGCCTCTGCTGCCCTTTCTGTGCCCCCAGGTTCTATCTCCCGTACACCCGAGGCCTGGCTTCAGGAGGGA
GCGGAGCAGCCATTCTCCAGGCCCCGTGGTTGCCCCCTGGACGTGTGCGTCTGCTGCTCCGGGGTGGAGCTGGGGT
GTGGGATGCACGGCCTCGTGGGGGCGGGCCGTCTCCAGCCCCGCTGCTCCCTGGCCAGCCCCCTTGTGCTGT
CGGTCCCGTCTAACCATGATGCCTTAACATGTGGAGTGTACCGTGGGGCCTCACTAGCCTCTAACTCCCTGTGTC
TGCTGCTCCAGCCACAGTGCCCTGGCCAGCCTGCCCCCTTCCCTGGACAGGGCTGTGGAGATGGCTCCGGCG
GCTTGGGGAAGCCAAATTGCCAAAACCTCAAGTACCTCAGTACCATCCAGGAGGCTGGGTATTGTCTGCTCT
GCCTTTTCTGTCTCAGCGGGCAGTGCCAGAGCCACACCCCCCAAGAGCCCTCGATGGACAGCCTCACCCACC
CCACCTGGGCCAGCCAGGAGCCCCGCTGGCCATCAGTATTTATTGCCTCCGTCCGTGCCGTCCCTGGGCCACT
GGCCTGGCGCCTGTTCCCCCAGGCTCTCAGTGCCACCACCCCCGGCAGGCCTTCCCTGACCCAGCCAGGAACAAA
CAAGGGACCAAGTGACACATTGCTGAGAGCCGTCTCCTGTGCTCCCCCGCCCCATCCCCGGTCTTCGTGTTGT
GTCTGCCAGGCTCAGGCAGAGGCGCCTGTCCCTGCTTCTTTTCTGACCGGGAATAAATGCCCTGAAGGAAAA
AA

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FIGURE 5003

MAEQEPTAEQLAQIAAENEDEHSVNYKPPAQKSIQEIQELDKDDESLRKYKEALLGRVAVSADPNVPNVVVTGL
TLVCSSAPGPLELDLTGDLESFKKQSFVLKEGVEYRIKISFRVNREIVSGMKYIQHTYRKGVKIDKTDYMGVGSYG
PRAEYEFLLTPVEEAPKGMLARGSYSIKSRFTDDDKTDHLSWEWNLTIKKDWKD

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FIGURE 5004

CTCCGGACAGCATGAGCGTGGGCTTCATCGGCGCTGGCCAGCTGGCTTTTGCCCTGGCCAAGGCTTTCACAGCAG
CAGGCGTCTTGGCTGCCCACAAGATAATGGCTAGCTCCCCAGACATGGACCTGGCCACAGTTTCTGCTCTCAGGA
AGATGGGGGTGAAGTTGACACCCCACAACAAGGAGACGGTGCAGCACAGTGATGTGCTCTTCCTGGCTGTGAAGC
CACACATCATCCCCCTTCATCCTGGATGAAATAGGCGCCGACATTGAGGACAGACACATTGTGGTGTCTGCGCGG
CCGGCGTCAACATCAGCTCCATTGAGAAGAAGCTGTGAGCGTTTCGGCCAGCCCCCAGGGTCATCCGCTGCATGA
CCAACACTCCAGTCGTGGTGCGGGAGGGGGCCACCGTGTATGCCACAGGACGCACGCCCAGGTGGAGGACGGGAG
GCTC**ATGG**AGCAGCTGCTGAGCAGCGTGGGCTTCTGCACGGAGGTGGAAGAGGACCTGATTGATGCCGTCACGGG
GCTCAGTGGCAGCGGCCCGCCTACGCATTACAGCCCTGGATGCCCTGGCTGATGGGGGTGTGAAGATGGGACT
TCCAAGGCGCCTGGCAGTCCGCCTCGGGGCCAGGCCCTCCTGGGGGCTGCCAAGATGCTGCTGCACTCAGAACA
GCACCCAGGCCAGCTCAAGGACAACGTCAGCTCTCCTGGTGGGGCCACCATCCATGCCCTGTCATGTGCTGGAGAG
TGGGGGCTTCCGCTCCCTGCTCATCAACGCTGTGGAGGCCTCCTGCATCCGCACACGGGAGCTGCAGTCCATGGC
TGACCAGGAGCAGGTGTCAACAGCCGCCATCAAGAAGACCATCCTGGACAAGGTGAAGCTGGACTCCCCTGCAAG
GACCGCTCTGTACCTTCTGGCCACACCAAGCTGCTCCCCCGCAGCCTGGCCCCAGCGGGCAAGGAT**TGAC**ACGT
CCTGCCTGACCACCATCCTGCCACCACCTTCTCTTCTTGTCTACTAGGGGGACTAGGGGGTCCCCAAAGTGGCC
CACTTTCTGTGGCTCTGATCAGCGCAGGGGGCCAGCCAGGGACATAGCCAGGGAGGGGCCACATCACTTCCCACTG
GAAATCTCTGTGGTCTGCAAGTGCTTCCAGCCCAGAACAGGGGTGGATTCCCCAACCTCAACCTCCTTTCTTCT
CTGCTCCCAAACCATGTCAAGGACCACCTTCCTCTAGAGCTCGGGAGCCCGGAGGGTCTTCACCCACTCCTACTCC
AGTATCAGCTGGCACGGGCTCCTTCCTGAGAGCAAAGGTCAAGGACCCCTCTGTGAAGGCTCAGCAGAGGTGGG
ATCCACGCCCCCTCCCGGCCCTCCCTGCCCTCCATTGAGGAGAAACCTCTCCTTCCCGTGTGAGAAGGGCCA
GAGGGTCCAGGCATCCCAAGTCCAGCGTGAAGGGCCACAGCCCCTCTTGGCTGCCAAGCACGCAGATCCCATGGA
CATTTGGGGAAGGGCTCCTTGGGCTGCTGGTGAACCTCTGTGGCCACCACCTCCTGCTCCTGACCTCCCTGGGA
GGGTGCTATCAGTTCTGTCCCTGGCCCTTTCAGTTTTATAAGTTGGTTTCCAGCCCCCAGTGCCTGACTTCTGTC
TGCCACATGAGGAGGGAGGCCCTGCCCTGTGTGGGAGGGTGGTTACTGTGGGTGGAATAGTGAGGCCTTCAACTG
ATTAGACAAGGCCCCGCCACATCTTGAGGGGCATCTGCCTTACTGATTAAATGTCAATGTAATCT

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FIGURE 5005

MEQLLSSVGFCTEVEEDLIDAVTGLSGSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQALLGAAKMLLHSEQH
PGQLKDNVSSPGGATIHVLES GGFRSLLINAVEASCIRTRELQSMADQEQVSPAAIKKTILDKVKLDSPAGT
ALSPSGHTKLLPRSLAPAGKD

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FIGURE 5006

GACATGGGAGCTGTTCTCGCGGGCCGCCGGGTGCTGGTCACCGGGGCAGGCAAAGGTATAGGGCGCGGCACGGTC
CAGGCGCTGCACGCGACGGGCGCGGGTGGTGGCTGTGAGCCGGACTCAGGCGGATCTTGACAGCCTTGTCGC
GAGTGCCCGGGGATAGAACCCTGTGCGTGGACCTGGGTGACTGGGAGGCCACCGAGCGGGCGCTGGGCAGCGTG
GGCCCCGTGGACCTGCTGGTGAACAACGCCGCTGTGCCCCGTGCTGCAGCCCTTCCTGGAGGTCACCAAGGAGGCC
TTTGACAGATCCTTTGAGGTGAACCTGCGTGCGGTTCATCCAGGTGTGCGCAGATTGTGGCCAGGGGCTTAATAGCC
CGGGGAGTCCCAGGGGCCATCGTGAATGTCTCCAGCCAGTGCTCCCAGCGGGCAGTAACCTAACCATAGCGTCTAC
TGCTCCACCAAGGGTGGCCTGGACATGCTGACCAAGGTGATGGCCCTAGAGCTCGGGCCCCACAAGATCCGAGTG
AATGCAGTAAACCCACAGTGGTGATGACGTCCATGGGCCAGGCCACCTGGAGTGACCCCCACAAGGCCAAGACT
ATGCTGAACCGAATCCCACTTGGCAAGTTTGCTGAGGTAGAGCACGTGGTGAACGCCATCCTCTTTCTGCTGAGT
GACCGAAGTGGCATGACCACGGGTTCACCTTGCCGGTGGAAGGGGGCTTCTGGGCCTGCTTGAGCTCCCTCCACA
CACCTCAAGCCCCATGCCGTGCTCATCCTACCCCCAATCCCTCCAATAAACCTGATTCTGCTGCCCAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5007

MELFLAGRRVLVTGAGKGIGRGTVQALHATGARVVAVSRTQADLDSLVRPCGIEPVCVDLGDWEATERALGSVG
PVDLLVNNAAVALLQPFLEVTKAEFDRSFEVNLRAVIQVSQIVARGLIARGVPGAIVNVSSQCSQRAVTNHSVYC
STKGALDMLTKVMALELGPHKIRVNAVNPVVMTSMGQATWSDPHKAKTMLNRIPLGKFAEVEHVVNAILFLLSD
RSGMTTGSTLPVEGGFWAC

5433/6881
FIGURE 5008

TCTCTGAAGTTCCAGAATCGATGGAAGTGGACGGCACGCCGCGGGGTGGGTGCAAGATGCCGCTGCCGGTTC
AGGTGTTTAACTTGCAGGGGGCCGTGGAGCCCATGCAGATCGACGTGGACCCCCAGGAAGACCCGCAGAATGCAC
CTGACGTCAACTACGTGGTGGAGAACCCAGCCTGGATCTGGAACAGTACGCGGCCAGCTACAGCGGCCCTGATGC
GCATCGAACGGCTGCAGTTCATTGCTGATCACTGCCCCACGCTGCGGGTGGAGGCCCTGAAGATGGCCCTCTCCT
TCGTGCAGAGAACCCTTTAACGTGGACATGTACGAGGAGATCCACCGCAAGCTCTCAGAGGCCACCAGGGAGCTGC
AGAACGCACCCGACGCCATCCCTGAGAGCGGCGTGGAGCCCCAGCCCTGGACACGGCCTGGGTGGAGGCCACGC
GGAAGAAGGCGCTGCTGAAGCTGGAGAAGCTGGACACAGACCTGAAGAACTACAAGGGCAACTCCATCAAAGAGA
GCATCCGGCGCGGCCACGACGACCTGGGCGACCACTACCTGGACTGTGGGGACCTCAGCAACGCCCTCAAGTGCT
ATTCCCGGGCCCGGGACTACTGCACCAGCGCCAAACACGTCAACATGTGCCTCAATGTCATCAAGGTCAGCG
TCTACTTGCAGAATTGGTCTCATGTGCTCAGCTACGTACGCAAGGCTGAGTCCACCCAGAGATTGCCGAGCAGC
GAGGAGAGCGTGACAGCCAGACCCAGGCCATCCTCACCAAGCTCAAGTGTGCCGCAGGCTTGGCAGAGCTGGCCG
CCAGGAAGTACAAGCAGGCTGCCAAGTGCCTCCTGCTGGCTTCCCTTTGATCACTGTGACTTCCCTGAGCTGCTGT
CCCCAGCAACGTGGCCATCTACGGTGGCCTGTGCGCCTTGGCTACCTTTGACCGGCAGGAGCTGCAGCGCAATG
TCATCTCCAGCAGCTCCTTCAAGTTGTTCTTGGAGCTGGAGCCACAGGTCCGAGACATCATCTTCAAATTCTACG
AGTCCAAGTACGCCTCATGTCTCAAGATGCTGGACGAGATGAAGGACAACCTGCTCCTGGACATGTATCTGGCCC
CCCATGTCAGGACCCTGTACACCCAGATTGCAACCGTGCCCTCATCCAGTATTTACAGCCCTACGTGTCAGCCG
ACATGCATAGGATGGCGGCAGCCTTCAATACCACGGTGGCCGCCCTGGAGGACGAGCTGACGCAGCTAATCCTGG
AGGGGCTGATCAGTGCCCGTGTGGACTCACACAGCAAGATCCTATACGCCCGGGACGTGGATCAGCGCAGCACCA
CCTTTGAGAAGTCTCTGTTGATGGGCAAGGAGTTCCAGCGCCGCGCCAAGGCCATGATGCTGCGGGCAGCTGTGC
TCCGCAACCAGATCCATGTCAAGTCCCCGCCAGAGAAGGGAGCCAGGGGGAGCTGACTCCAGCCAACAGCCAGT
CCCGGATGAGCACCAACATGTGAGGGGTGAACCTTGGCCTCCAGGACATCTGCACCCCTCCCCACCTCCACGGA
CCTCGGACCTCCAGGCGGCTCAGTGCTGCCGTGCGGCCAGCTAAGGGGCTGGCCACTGGGTGCCACCCAGCCTG
TGTGCCCTCCCTGGGGCTGAGGAGGCAGGCGGCTGCTAGTTGTGGCCCTTCCCTGGAAGGAGAGGCCCTGCAGGGCT
CGACCTGTGGGTTTCTGTCCCCAGGGAGCAGACTGTGCGGCACCCAGGCCAGTGGCACCATTTCAGACCCC
TCCTGTTCCCGCCTCAGTCAGGTGCAGACAAGTGGGCGGTGTCCATTAAAGAGCAGACTCAGCGTT

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FIGURE 5009

MEVDGTPRRGGCKMPLPVQVFNLOGAVEPMQIDVDPQEDPQNAPDVNYVVENPSLDLEQYAASYSGLMRIERLQF
IADHCPTLRVEALKMALS FVQRTFNVD MYEEIHRKLSEATRELQNAPDAIPESGVEPPALDTAWVEATRKKALLK
LEKLD TDLK NYKGNSIKESIRRGHDDLGDHYLDCGDL SNALKCYSRARDYCTSAKHVINMCLNVIKVSVYLNWS
HVL SYVSKAESTPEIAEQRGERDSQTQAILTKLKCAAGLAELAARKYKQAAKCLLLASFDHCDPELLSPSNVAI
YGGLCALATFDRQELQRNVISSSSFKLFLELEPQVRDIIFKFYESKYASCLKMLDEMKNLLLDMYLAPHVRTLY
TQIRNRALI QYFSPYVSADMRMAAAFNTTVA ALEDEL TQLILEGLISARVDSH SKILYARDVDQRSTTFEKSLL
MGKEFQRRAKAMMLRAAVLRNQIHVKSPPREGSQGELTPANSQSRMSTNM

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FIGURE 5010A

ACGGCAGCGGCCCCGGCCTCCCTCTCCGCCGCGCTTCAGCCTCCCGCTCCGCCGCGCTCCAGCCTCGCTCTCCGC
CGCCCCGACCGCCGCCCCGCGCCCTCACCAGAGCAGCCATGGAGGAGGTGGTGATTGCCGGCATGTCCGGGAAGCT
GCCAGAGTCGGAGAACTTGCAGGAGTTCTGGGACAACCTCATCGGCGGTGTGGACATGGTCACGGACGATGACCG
TCGCTGGAAGGCGGCTCTACGGCCTGCCCCGGCGGTCCGGCAAGCTGAAGGACCTGTCTAGGTTTGTATGCCTCCT
TCTTCGGAGTCCACCCCAAGCAGGCACACACGATGGACCCTCAGCTGCGGCTGCTGCTGGAAGTCACCTATGAAG
CCATCGTGGACGGAGGCATCAACCCAGATTCACTCCGAGGAACACACACTGGCGTCTGGGTGGGCGTGAGCGGCT
CTGAGACCTCGGAGGCCCTGAGCCGAGACCCCGAGACACTCGTGGGCTACAGCATGGTGGGCTGCCAGCGAGCGA
TGATGGCCAACCGGCTCTCCTTCTTCTTCGACTTCAGAGGGGCCAGCATCGCACTGGACACAGCCTGCTCCTCCA
GCCTGATGGCCCTGCAGAACGCCCTACCAGGCCATCCACAGCGGGCAGTGCCCTGCCGCCATCGTGGGGGGCATCA
ATGTCCTGCTGAAGCCCAACACCTCCGTGCAGTTCTTGAGGCTGGGGATGCTCAGCCCCGAGGGCACCTGCAAGG
CCTTCGACACAGCGGGGAATGGGTACTGCCGCTCGGAGGGTGTGGTGGCCGCTCCTGCTGACCAAGAAGTCCCTGG
CCCGGCGGGTGTACGCCACCATCCTGAACGCCGGCACCAATACAGATGGCTTCAAGGAGCAAGGCGTGACCTTCC
CCTCAGGGGATATCCAGGAGCAGCTCATCCGCTCGTTGTACAGTCCGCCGGAGTGGCCCCGTAGTCATTTGAAT
ACATCGAAGCCACGGCACAGGCACCAAGGTGGGCGACCCCCAGGAGCTGAATGGCATCACCCGAGCCCTGTGCG
CCACCCGCCAGGAGCCGCTGCTCATCGGCTCCACCAAGTCCAACATGGGGCACCCGGAGCCAGCCTCGGGGCTGG
CAGCCCTGGCCAAGGTGCTGCTGTCCCTGGAGCACGGGCTCTGGGCCCCCAACCTGCACTTCCATAGCCCCAAC
CTGAGATCCACGCGTGTGGATGGGCGGCTGCAGGTGGTGGACCAGCCCCCTGCCCGTCCGTGGCGGCAACGTGG
GCATCAACTCCTTTGGCTTCGGGGGCTCCAACGTGCACATCATCCTGAGGCCCAACACGCAGCCGCCCGCGCAC
CCGCCCCACATGCCACCCTGCCCGCTCTGCTGCGGGCCAGCGGACGCACCCCTGAGGCCGTGCAGAAGCTGCTGG
AGCAGGGCCTCCGGCACAGCCAGGACCTGGCTTTCTGAGCATGCTGAACGACATCGCGGCTGTCCCCGCCACCG
CCATGCCCTTCCGTGGCTACGCTGTGCTGGGTGGTGAGCGCGGTGGCCAGAGGTGCAGAGGTGCCCGCTGGCG
AGCGCCCGCTCTGGTTTCATCTGCTCTGGGATGGGCACACAGTGGCGCGGGATGGGGCTGAGCCTCATGCGCCTGG
ACCGCTTCCGAGATTCCATCCTACGCTCCGATGAGGCTGTGAAGCCATTCCGCCCTGAAGGTGTACAGCTGCTGC
TGAGCACAGACGAGAGCACCTTTGATGACATCGTCCATTGTTGTGAGCCTGACTGCCATCCAGATAGGCCTCA
TAGACCTGCTGAGCTGCATGGGGCTGAGGCCAGATGGCATCGTCGCCCACTCCCTGGGGGAGGTGGCCTGTGGCT
ACGCCGACGGCTGCCTGTCCAGGAGGAGGCCGTCTCGCTGCCTACTGGAGGGGACAGTGCATCAAGAAGCCC
ATCTCCCCGCCGGCGCCATGGCAGCCGTGGGCTTGTCTGGGAGGAGTGTAACAGCGCTGCCCCCGGGCGTGG
TGCCCCGCTGCCACAACCTCCAAGGACACAGTCACCATCTCGGGACCTCAGGCCCCGGTGTGTTGAGTTCTGTGGAGC
AGCTGAGGAAGGAGGGTGTGTTTGCCAAGGAGGTGCGGACCGGCGGTATGGCCTTCCACTCCTACTTTCATGGAGG
CCATCGCACCCCCACTGCTGCAGGAGCTCAAGAAGGTGATCCGGGAGCCGAAGCCACGTTACGCCCGCTGGCTCA
GCACCTCTATCCCCGAGGCCAGTGGCACAGCAGCTGGCACGCACGTCTCCGCCGAGTACAATGTCAACAACC
TGGTGAGCCCTGTGCTGTTCCAGGAGGCCCTGTGGCACGTGCCTGAGCACGCGGTGGTGTGGAGATCGCGCCCC
ACGCCCTGCTGCAGGCTGTCTGAAGCGTGGCCTGAAGCCGAGCTGCACCATCATCCCCCTGATGAAGAAGGATC
ACAGGGACAACCTGGAGTTCTTCTGGCCGGCATCGGCAGGCTGCACCTCTCAGGCATCGACGCCAACCCCAATG
CCTTGTTCCACCTGTGGAGTTCCAGCTCCCCGAGGAACCTCCCTCATCTCCCCACTCATCAAGTGGGACCACA
GCCTGGCCTGGGACGTGCCGGCCGCGGAGGACTTCCCAACGGTTTCAGGTTCCCCCTCAGCCGCCATCTACAACA
TCGACACCAGCTCCGAGTCTCCTGACCACTACCTGGTGGACCACACCCTCGACGGTCCGCTCCTCTTCCCCGCCA
CTGGCTACCTGAGCATAGTGTGGAAGACGCTGGCCCGCGCCCTGGGCCTGGGCGTCGAGCAGCTGCCTGTGGTGT
TTGAGGATGTGGTGTGTCACCAGGCCACCATCCTGCCCAAGACTGGGACAGTGTCCCTGGAGGTACGGCTCCTGG
AGGCCTCCCGTGCCTTCGAGGTGTGAGAGAAGGCAACCTGGTAGTGTGAGTGGGAAGGTGTACCAAGTGGGATGACC
CTGACCCAGGCTCTTCGACCACCCGAAAGCCCCACCCCAACCCACAGGAGCCCCCTCTTCTGGCCAGGCTG
AAGTTTACAAGGAGCTGCGTCTGCGTGGCTACGACTACGGCCCTCATTTCCAGGGCATCCTGGAGGCCAGCCTGG
AAGGTGACTCGGGGAGGCTGCTGTGGAAGGATAACTGGGTGAGCTTCATGGACACCATGCTGCAGATGTCCATCC
TGGGCTCGGCCAAGCACGGCCTGTACCTGCCACCCGTGTACCGCCATCCACATCGACCCCTGCCACCCACAGGC
AGAAGCTGTACACACTGCAGGACAAGGCCCAAGTGGCTGACGTGGTGGTGTGAGCAGGTGGCTGAGGGTCACAGTGG
CCGGAGGCGTCCACATCTCCGGGCTCCACACTGAGTCGGCCCCGCGGCGGCAGCAGGAGCAGCAGGTGCCCATCC
TGGAGAAGTTTTGCTTCACTCCCCACAGGAGGAGGGTGCCTGTCTGAGCGCGCTGCCCTGCAGGAGGAGCTGC
AACTGTGCAAGGGGCTGGTGCAGGCACTGCAGACCAAGGTGACCCAGCAGGGGCTGAAGATGGTGGTGCCCGGAC

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FIGURE 5010B

TGGATGGGGCCCAGATCCCCCGGGACCCCTCACAGCAGGAAGTGGCCCGGCTGTTGTGCGGCTGCCTGCAGGCTTC
AGCTCAACGGGAACCTGCAGCTGGAGCTGGCGCAGGTGCTGGCCAGGAGAGGCCCAAGTGCAGAGGACCCTC
TGCTCAGCGGCCTCCTGGACTCCCCGGCACTCAAGGCCTGCCTGGACACTGCCGTGGAGAACATGCCAGCCTGA
AGATGAAGGTGGTGGAGGTGCTGGCTGGCCACGGTCACCTGTATTCCCGCATCCAGGCCTGCTCAGCCCCATC
CCCTGCTGCAGCTGAGCTACACGGCCACCGACCGCCACCCCAAGGCCCTGGAGGCTGCCAGGCCGAGCTGCAGC
AGCACGACGTTGCCAGGGCCAGTGGGATCCCGCAGACCCTGCCCCAGCGCCCTGGGCAGCGCCGACCTCCTGG
TGTGCAACTGTGCTGTGGCTGCCCTCGGGGACCCGGCCTCAGCTCTCAGCAACATGGTGGCTGCCCTGAGAGAAG
GGGGCTTTCTGCTCCTGCACACACTGCTCCGGGGGACCCCTCGGGGACATCGTGGCCTTCTCACCTCCACTG
AGCCGCAGTATGGCCAGGGCATCCTGAGCCAGGACGCGTGGGAGAGCCTCTTCTCCAGGGTGTGCTGCGCCTGG
TGGGCTGAAGAAGTCTTCTACGGCTCCACGCTCTTCTGTGCCGCCGGCCACCCCGCAGGACAGCCCCATCT
TCCTGCCGTTGGACGATAACCAGCTTCCGCTGGGTGGAGTCTCTGAAGGGCATCCTGGCTGACGAAGACTCTTCCC
GGCCTGTGTGGCTGAAGGCCATCAACTGTGCCACCTCGGGCGTGGTGGGCTTGGTGAAGTGTCTCCGCCGAGAGC
CCGGCGGGAACCGCTCCGGTGTGTGCTGCTCTCAACCTCAGCAGCACCTCCACGTCGCCGAGGTGGACCCGG
GCTCCGCAGAACTGCAGAAGGTGTTGCAGGGAGACCTGGTGTGAACGTTCTACCGCGACGGGGCTGGGGGGCTT
TCCGCCACTTCTGCTGGAGGAGGACAAGCCTGAGGAGCCGACGGCACATGCCTTTGTGAGCACCTCACCCGGG
GGGACCTGTCTCCATCCGCTGGGTCTGCTCCTCGCTGCGCCATGCCAGCCACCTGCCCTGGCGCCAGCTCT
GCACGGTCTACTACGCTCCCTCAACTTCCGCGACATCATGCTGGCCACTGGCAAGCTGTCCCTGATGCCATCC
CAGGGAAGTGGACCTCCCAGGACAGCCTGCTAGGTATGGAGTTCTCGGGCCGAGACGCCAGCGCAAGCGTGTGA
TGGGACTGGTGCCTGCCAAGGGCCTGGCCACCTCTGTCTGCTGTACCGGACTTCTCTGGGATGTGCCTTCCA
ACTGGACGCTGGAGGAGGCGGCCTCGGTGCCTGTGCTCTACAGCACGGCCTACTACGCGCTGGTGGTGCCTGGGC
GGGTGCGCCCCGGGGAGACGCTGCTCATCCACTCGGGCTCGGGCGGCGTGGGCCAGGCCCATCGCCATCGCCC
TCAGTCTGGGCTGCCGCTCTTACCACCGTGGGGTGGCTGAGAAGCGGGCGTACCTCCAGGCCAGGTTCCCCC
AGCTCGACAGCACCAGCTTCGCCAACTCCCGGGACACATCCTTCGAGCAGCATGTGCTGTGGCACAGGGCGGGA
AGGGCGTTGACCTGGTCTTGAATCCTTGGCGGAAGAGAAGCTGCAGGCCAGCGTGAGGTGCTTGGCTACGCACG
GTCGCTTCTTGAAATTTGGCAAATTCGACCTTTCTCAGAACCACCGCTCGGCATGGCTATCTTCTGAAGAAGC
TGACATTCCACGGGGTCTACTGGATGCGTTCTTCAACGAGAGCAGTGTGCTGACTGGCGGGAGGTGTGGGCGCTTG
TGCAGGCCGGCATCCGGGATGGGGTGGTACGGCCCTCAAGTGCACGGTGTTCATGGGGCCAGGTGGAGGACG
CCTTCCGCTACATGGCCCAAGGGAAGCACATTGGCAAAGTCGTGCTGCAGGTGCTTGGCGAGGAGCCGGAGGCAG
TGCTGAAGGGGGCCAAACCCAAGCTGATGTGCGCCATCTCCAAGACCTTCTGCCCCGGCCACAAGAGCTACATCA
TCGCTGGTGGTCTGGGTGGCTTCGGCTGGAGTTGGCGCAGTGGCTGATACAGCGTGGGGTGCAAGCTCGTGT
TGACTTCTCGCTCCGGGATCCGGACAGGCTACCAGGCCAAGCAGGTCCGCCGGTGGAGGCGCCAGGGCGTACAGG
TGCAGGTGTCCACCAGCAACATCAGCTCACTGGAGGGGGCCCGGGGCTCATTGCCGAGGCGGCGCAGCTTGGGC
CCGTGGGCGGCGTCTTCAACCTGGCCGTGGTCTTGAGAGATGGCTTGTGAGAAACCAGACCCAGAGTTCTTCC
AGGACGTCTGCAAGCCCCAAGTACAGCGGCACCTGAACCTGGACAGGGTGACCCGAGAGGCGTGCCCTGAGCTGG
ACTACTTTGTGGTCTTCTCCTCTGTGAGCTGCGGGCGTGGCAATGCGGGACAGAGCAACTACGGCTTTGCCAATT
CCGCCATGGAGCGTATCTGTGAGAAACGCCGGCACGAAGGCCTCCCAGGCCTGGCCGTGCAGTGGGGCGCCATCG
GCGACGTGGGCATTTTGGTGGAGACGATGAGCACCACGACACGATCGTCACTGGCACGCTGCCCCAGCGCATGG
CGTCTGCCTGGAGGTGCTGGACCTTCTCTGAACCAGCCCCACATGGTCTGAGCAGCTTTGTGCTGGCTGAGA
AGGCTGCGGCCTATAGGGACAGGGACAGCCAGCGGGACCTGGTGGAGGCGGTGGCACACATCCTGGGCATCCGCG
ACTTGGCTGCTGTCAACCTGGACAGCTCACTGGCGGACCTGGGCCTGGACTCGCTCATGAGCGTGGAGGTGCGCC
AGACGCTGGAGCGTGAGCTCAACCTGGTGTGTCCGTGCGCGAGGTGCGGCAACTCACGCTCCGGAAGTGCAGG
AGCTGTCTCTAAAGGCGGATGAGGCCAGCGAGCTGGCATGCCCCACGCCCAAGGAGGATGGTCTGGCCCAGCAGC
AGACTCAGCTGAACCTGCGCTCCCTGCTGGTGAACCCGGAGGGCCCCACCTGATGCGGCTCAACTCCGTGCAGA
GCTCGGAGCGGGCCCTGTTCTGGTGCACCCAATCGAGGGCTCCACCACCGTGTTCACAGCCTGGCTGCCTACT
ACATCGACTGCATCAGGCAGGTGCAGCCGAGGGCCCTACCGCGTGGCCGGCTACTCCTACGGGGCTGCGTGG
CCTTTGAAATGTGCTCCAGCTGCAGGCCAGCAGAGCCAGCCCCACCCACAACAGCCTCTTCTGTTTCGACG
GCTCGCCACCTACGTACTGGCCTACACCAGAGCTACCGGGCAAGCTGACCCAGGCTGTGAGGCTGAGGCTG

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FIGURE 5010C

AGACGGAGGCCATATGCTTCTTCGTGCAGCAGTTACGGACATGGAGCACAACAGGGTGCTGGAGGCGCTGCTGC
CGCTGAAGGGCCTAGAGGAGCGTGTGGCAGCCGCCGTGGACCTGATCATCAAGAGCCACCAGGGCCTGGACCGCC
AGGAGCTGAGCTTTGCGGCCCGGTCTTTCTACTACAAGCTGCGTGCCGCTGAGCAGTACACACCCAAGGCCAAGT
ACCATGGCAACGTGATGCTACTGCGCGCCAAGACGGGTGGCGCCTACGGCGAGGACCTGGGCGCGGACTACAACC
TCTCCCAGGTATGCGACGGGAAAGTATCCGTCCACGTTCATCGAGGGTGACCACCGCACGCTGCTGGAGGGCAGCG
GCCTGGAGTCCATCATCAGCATCATCCACAGCTCCCTGGCTGAGCCACGCGTGAGCGTGCGGGAGGGCTAGGCCC
GTGCCCCCGCCTGCCACCGGAGGTCACTCCACCATCCCCACCCACCCACCCCGCCATGCAACGGGAT
TGAAGGGTCCTGCCGGTGGGACCCCTGTCCGGCCCAGTGCCACTGCCCCCGAGGCTGCTAGATGTAGGTGTTAGG
CATGTCCCACCCACCCGCCCGCTCCACGGCACCTCGGGGACACCAGAGCTGCCGACTTGGAGACTCCTGGTCTG
TGAAGAGCCGGTGGTGCCCGTGCCCGCAGGAAGTGGGCTGGGCCTCGTGCGCCCGTGCGGGTCTGCGCTTGGTCTT
TCTGTGCTTGGATTTGCATATTTATTGCATTGCTGGTAGAGACCCCCAGGCCTGTCCACCCTGCCAAGACTCCTC
AGGCAGCGTGTGGGTCCCGCACTCTGCCCCATTTCCCGATGTCCCCTGCGGGCGCGGGCAGCCACCCAAGCCT
GCTGGCTGCGGCCCCCTCTCGGCCAGGCATTGGCTCAGCCCGCTGAGTGGGGGGTCTGTTGGGCCAGTCCCCGAGGA
GCTGGGCCCCCTGCACAGGCACACAGGGCCCCGCCACACCCAGCGGCCCCCGCACAGCCACCCGTGGGGTGCTGC
CCTTATGCCCCGGCGCCGGGCACCAACTCCATGTTTGGTGTTTGTCTGTGTTTGTTCAGAAATGATTCAAAT
TGCTGCTTGGATTTTGAAATTTACTGTAAGTGTACAGTGTACAGTCTGGACCCCGTTTCATTTTACACCAATTT
GGTAAAAATGCTGCTCTCAGCCTCCCACAATTAAACCGCATGTGATCTCC

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FIGURE 5011

CAGGGAGTGCCTGCAGCACCCCGGCGGGGCCACCCAGTCTGCGTGTACACGAGGGATGAGGTGACGGGTGAAGC
TGCCCTGCGGGGCACGACGCTGCAGTCGCTGGGCCTGACCGGGGGCAGCGCCACCATCAGGTTTGTCA**ATGA**AGTG
CTACGACCCCGTGGGCAAGACCCAGGAAGCCTGGGCTCGTCAGCGTCGGCTGGCCAGGCAGCCGCCAGCGCTCC
ACTTCCCTTGGAACTCTGGGGAGCTCAGCCGCGGCGACTTGAGCCGTCCGGAGGACGCGGACACCTCAGGGCCCTG
CTGCGAGCACACTCAGGAGAAGCAGAGCACAAAGGGCACCCGCAGCTGCCCCCTTTGTTCCCTTTCTCGGGTGGGGG
ACAGAGACTGGGGGGCCCTCCTGGGCCCACGAGGCCTCTGACATCATCTTCAGCTAAGTTGCCGAAGTCCCTCTC
CAGCCCTGGAGGCCCTCCAAGCCAAAGAAGTCCAAGTCGGGCCAGGATCCCCAGCAGGAGCAGGAGCAGGAGCG
GGAGCGGGATCCCCAGCAGGAGCAGGAGCGGGAGCGGCCCGTGGACCGGGAGCCCGTGGACCGGGAGCCGGTGGT
GTGCCACCCGACCTGGAGGAGCGGCTGCAGGCCTGGCCAGCGGAGCTGCCTGATGAGTTCTTTGAGCTGACGGT
GGACGACGTGAGAAGACGCTTGGCCCAGCTCAAGAGTGAGCGGAAGCGCCTGGAAGAAGCCCCCTTGGTGACCAA
GGCCTTCAGGGAGGCGCAGATAAAGGAGAAGCTGGAGCGCTACCCAAAGGTGGCTCTGAGGGTCTTGTTCCCCGA
CCGCTACGTCTTACAGGGCTTCTTCCGCCCCAGCGAGACAGGTGGGGGACTTGCGAGACTTCGTGAGGAGCCACC
TGGGGAACCCCGAGCTGTCATTTTACCTGTTTCATACCCCTCCAAAAACAGTCTGGACGACCACACGCAGACCC
TCTTTCAGGCGAACCTCTTCCCGGCCGCTCTGGTGCCTTGGGAGCCGAAGAGCCGGCAGGTGTCTACCTGGAGC
CTGGCCTGCTGGAGCATGCCATCTCCCCATCTGCGGCCGATGTGCTGGTGGCCAGGTACATGTCCAGGGCCGCCG
GGTCCCCCTTCCCCATTGCCAGCCCC**TGA**ACCCTGCACCTAAGTCTGAGCCAGCTGCTGAGGAGGGGGCGCTGGTCC
CCCCTGAGCCCATCCCAGGGACGGCCAGCCCGTGAAGAGGAGCCTGGGCAAGGTGCCCAAGTGGCTGAAGCTGC
CGGCCAGCAAGAGGTGAGAGCTGCCAGCCTGAGGTGCCACTCCGCCAGCCACAGGACCACCTCCTCTGCCAGCA
GGAATAAAGACTTGTGCATCCCTC

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FIGURE 5012

MKCYDPVGKTPGSLGSSASAGQAAASAPLPLESGELSRGDLSPEDADTSGPCCEHTQEKQSTRAPAAAPFVPFS
GGGQRLGGPPGPTRPLTSSSAKLPKSLSSPGGPSKPKKSKSGQDPQQEQEQERERDPQQEQERERPVDREPVRE
PVVCHPDLEERLQAWPAELPDEFFELTVDDVRRRLAQLKSERKRLEEAPLVTKAFREAQIKEKLERYPKVALRVL
FPDRYVLQGGFFRSETGGGLARLREEPPGEPRAVILPVHHPKNSPGRPHADPLSGEPLPGRSGALGSRRAGRCL
PGAWPAGACHLPICGRCAGGQVHVQGRRVPFPIASP

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FIGURE 5013

GACCCCTCCTCCTGTAGAGAGTGGTGCTGCCCTCTCGGGATGTACCTGCAGGTGGAGACCCGCACCAGCTCCCGC
CTCCATCTGAAGAGGGGCTCCAGGCATCCGGTCCTGGTCCCTGCTGGTTGGAATCTTGTTCGATTGGCCTGGCTGCT
GCCTACTACAGCGGAGATAGCCTGGGCTGGAAGCTCTTCTACGTCACAGGCTGCCTGTTTGIGGCTGTGCAGAAC
TTGGAGGACTGGGAGGAAGCCATCTTCGACAAGAGCACAGGGAAGGTTGTTTTGAAGACGTTACAGCCTCTACAAG
AAGCTGCTGACTCTTTTCAGAGCTGGCCACGACCAGGTGGTGGTCCCTGCTCCATGATGTCCGTGATGTGAGCGTG
GAGGAGGAGAAGGTCCGGTACTTCGGGAAAGGCTACATGGTGGTGTCCGGCTTGCGACGGGCTTCTCCACCCCC
CTCACGCAGAGTGCAGTCATGGGCCACCGCAGTGATGTGGAAGCATCGCCAAGCTCATCACCAGCTTCTGAGC
TGCACTGCCCTTGAGAGCCCCACAGAGCTGTCTCAGAGCAGCGACAGTGAGGCCGGTGACCCTGCAAGCCAGAGCT
GACAGCCCCACTGTGCCTGAGCCCGTGCACCGCCACAGGACCCATGGCACATTCCCGGTGTGCCTGAGCCCGTG
CACCGCCACAGGACCCGTGGCACATTCCCGGTGTGCCTGAGCCCGTGACCGCCACAGGACCCGTGGCACATT
CCCGGTGTGCCTGAGCCCGTGCACCGCCACAGGACCCGTGGCACATTCCCGGTGTGCCTGAGCCCGTGACCGC
CCACAGGACCCGTGGCCTTGGCTTCAGTTGGTGCCTCCAGCCGAGTTGGCCTATTGCCTGCTCATGCTGCTGCTT
GCACACTGCATGAAACAGCAGGCCAGACCAGGACATCCAGACTTTCTCCATCGTGAGGCCCTGGGCCTGCCTTTCT
GCAGCCGGAGGTCTCGCCAGCCCTGGACTCCTGCTTTGGGCCACAGCAAGACCTCGGGCGAGTGGAGAGGCGGGG
CCAGGCCGGGCCCTTGTGGGTGCTGATGCTGCATGTTGTCCCCGACACAGCGTCCTCTCCCTGGTGGACATCCCC
AGCGGTGAGGTGCTTCCCCAAGGGCAGTGAGGGGTGAACATCCAGGGCCTACCTGGCTGTGCACGCTGCAGCCAC
ACTGTGGAAGCTGCCCTCCCCGAGGACCCGCCTCCCTTGCTGATGCCAGGATCTCAGCGCATAGACCACTCTGC
CCCAGCGGTGCTCACAGAAAGGTCTCTCTGTTCTCACACTCAGCTTCAGCATAAGCTGTGAGGCCAGAAAAAAG
GTCAGCTCTTCTAGTATCGTGAGTGCTTAAAAACCGGGAGCTCCAGCCGGGCGCAGTGTTTCATGCCAGTAATC
CCAGCACTTTCGGAGGCCGAGGTGGGAGGATTGCTTGAGGCCAGGAGTTCAAGACCAGCCTGGGCAACACAGCAA
GATCCTGTCTTTGTAAAAAACTAACCAAACAGGAAAACTGGGAGATTTTCTGCAGAAATTGAGTTCCAGCCTC
TCTCGAACCTGGGAAGACCTGGCAGGAGGGGGCTGGGCTCTCGGCTACAGACTTCTCCCCACCCCGTAGGAGCTG
AACGCCAACCATCCTGACCCGCCAGTGCTCTTGGTCTCCTGAGTGATACCCAGGTCCCTCCAGGTGCGGTGTGCAC
CGAGCGCGCCTGGCCTGATGCCCTGGCCTGTGAGCTGGGGACTCCTGGGCCCTGTGAGCCCCCTAGGCGCAGGCC
AGGAATGGCTGGGTAGGACAGGGAACACCTTTGCCCCACGTCCTGGCTGTGACCTCGGTGAAAGCCGACAGGAGAG
AGATGGACCTCCTCCTCAGTAGTGGCTGCCAGTCCCTCGTTGCAGGACAGGGTCATCATAACCATAAATAACCC
TTCACGTGTC

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FIGURE 5014

GCGTCGGGGGAGGACAACAAAGGGCCGCGGGCGGGCGGGCAGTGGTGTCCCAGTCTCCCGGTGCTTCCCTGAGGCT
GAGGCGCCCGGCTCCCGCCCGCCGCGCTCCAGATGAAGTGTGAGCACTGCACGCGCAAGGAATGTAGTAAGAAA
ACAAAAAAGTATGACCAAGAGAAATGTGTCAGCCGATGCACCGAGTCCAGCCCAGGAAAATGGAGAGAAGGGAGAA
TTCCACAAGTTGGCTGATGCCAAGATATTTTTGAGCGACTGCCTGGCATGTGACAGCTGTATGACTGCAGAGGAA
GGAGTCCAACCTTTCCAGCAAAAATGCCAAGGACTTCTTCCGCGTTCTGAACCTTAACAAGAAATGTGATACCTCA
AAGCACAAGTGTCTGGTAGTGTCTGTGTGTCCTCAATCTTTGCCTTATTTTGCTGCTAAATTCAACCTCAGTGTA
ACTGATGCATCCAGAAGACTCTGTGGTTTCTCAAAAGTCTTGGGGTGCAGTATGTATTTGATACGACGATAGCT
GCGGATTTTAGTATCCTGGAGAGTCAAAAAGAATTTCGTGCGTCGCTATCGCCAGCACAGTGAGGAGGAACGCACC
CTGCCCATGCTGACCTCTGCCTGTCCTGGCTGGGTCCGATACGCCGAGCGGGTGCTGGGTGCGCCCATCACTGCC
CACCTCTGCACCGCCAAGTCCCCCAGCAGGTCATGGGCTCTTTGGTGAAGGATTATTTGCGCCAGACAGCAGAAC
CTGTCTCCAGAGAAGATTTTCCACGTCAATTGTGGCCCTTGTATGACAAGAAGCTGGAGGCTCTTCAGGAAAGC
CTTCCCCCTGCTTTGCATGGCTCCCGGGGCGCTGACTGCGTGTTAACATCAGAAATTAGCCAGGCGTGGTGGTGC
ACACCTGTGATCACAGCTACTCGGGAGGCTGCGGCAAGAGAATCACTTGAACCCGGGAGGCAGAGGTTACAGCGA
GACAAGATTGCACCACTGGACTCCAGCCTGGGCGGCGGAGGTGAAATTGCTCAAATAATGGAGCAAGGTGACCTC
TCAGTGAGAGATGCTGCCGTCGACACTCTGTTTGGAGACTTGAAGGAGGACAAAGTGACGCGTCATGATGGAGCC
AGCTCAGACGGGCACCTGGCACACATCTTCAGACATGCGGCCAAGGAGCTGTTCAACGAGGATGTGGAGGAGGTC
ACTTACCGAGCCCTGAGAAACAAAGACTTCCAAGAGGTACCCCTTGAGAAGAACGGAGAGGTGGTGTACGCTTT
GCTGCAGCCTATGGCTTTGAAACATCCAGAACATGATCCTGAAGCTTAAGAAGGGCAAGTTCCCATTTCCACTTT
GTGGAGGTCTCGCCTGTGCTGGAGGATGCTTAAATGGCAGAGGCCAAGCCCAGACTCCAGACGGACATGCGGAT
AAGGCCCTGCTGCGGCAGATGGAAGGCATTTACGCTGACATCCCTGTGCGGCGTCCGGAGTCCAGTGACACAGTG
CAGGAGCTGTACCAGGAGTGGCTGGAGGGGATCAACTCCCCCAAGGCCCGAGAGGTGCTGCATACCACGTACCAG
AGCCAGGAGCGTGGCACACACAGCCTGGACATCAAGTGGTGAAGTCAGGCCAGGGCCTTCCAGCTGCTCTTGGGG
CCAGAGCCAAGAGCCTCTCAGTAGAGGGAGGGGCTGCCCTGAGTGGAGTATTAAAGACACTTAAGAAAACCGCTC
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5015

MKCEHCTRKECSKKTCTDDQENVVSADAPSPAQENGEGEFHKLADAKIFLSDCLACDSCMTAEEGVQLSQONAKD
FFRVNLNLNKKCDTSKHKVLVSVCPQSLPYFAAKFNLSVTDASRRLCGFLKSLGVHYVFDTTIAADFSILESQKE
FVRRYRQHSEEERTLPMLTSACPGWVRYAERVLGRPITAHLC TAKSPQQVMGSLVKDYFARQQNLSPEKIFHVIV
APCYDKKLEALQESLPPALHGSRGADCVL TSEISQAWWCTPVITATREAAAARESLPGRQRLQORDKIAPLDSSLG
GGGEIAQIMEQGDL\$VRDAAVDTLFGDLKEDKVTRHDGASSDGH LAHIFRHA AKELF NEDVEEV TYRALRNKDFQ
EVTLEKNGEVVLRF AAAYGFRNIQNMILKLKKGKFPFHFEVLACAGGCLN GRGQAQTPDGHADKALLRQMEGIY
ADIPVRRPESSAHVQELYQEWLEGINSPKAREVLHTTYQSQERGTHSLDIKW

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FIGURE 5016

CGTCAAGCTTGGCACGAGGCC**ATG**GAGCAGCTGCTGCGCGCCGAGCTGCGCACCGCGACCCTGCGGGCCTTCGGC
GGCCCCGGCGCCGGCTGCATCAGCGAGGGCCGAGCCTACGACACGGACGCAGGCCAGTGTTTCGTCAAAGTCAAC
CGCAGGACGCAGGCCCCGGCAGATGTTTGAGGGGGAGGTGGCCAGCCTGGAGGCCCTCCGGAGCACGGGCCTGGTG
CGGGTGCCGAGGCCCATGAAGGTCATCGACCTGCCGGGAGGTGGGGCCGCCTTTGTGATGGAGCATTTGAAGATG
AAGAGCTTGAGCAGTCAAGCATCAAACTTTGGAGAGCAGATGGCAGATTTGCATCTTTACAACCAGAAGCTCAGG
GAGAAGTTGAAGGAGGAGGAGAACACAGTGGGCCGAAGAGGTGAGGGTGCTGAGCCTCAGTATGTGGACAAGTTC
GGCTTCCACACGGTGACGTGCTGCGGCTTCATCCCGCAGGTGAATGAGTGGCAGGATGACTGGCCGACCTTTTTTC
GCCCCGCACCGGCTCCAGGCGCAGCTGGACCTCATTGAGAAGGACTATGCTGACCGAGAGGCACGAGAACTCTGG
TCCCGGCTACAGGTGAAGATCCCGGATCTGTTTTGTGGCCTAGAGATTGTCCCCGCGTTGCTCCACGGGGATCTC
TGGTCGGGAAACGTGGCTGAGGACGACGTGGGGCCCATTATTTACGACCCGGCTTCCTTCTATGGCCATTCCGAG
TTTGAAGTGGCAATCGCCTTGATGTTTGGGGGGTTCCCCAGATCCTTCTTCACCGCCTACCACCGGAAGATCCCC
AAGGCTCCGGGCTTCGACCAGCGGCTGCTGCTCTACCAGCTGTTTAACTACCTGAACCACTGGAACCACTTCGGG
CGGGAGTACAGGAGCCCTTCCTTGGGCACCATGCGAAGGCTGCTCAAG**TAG**CGGCCCTGCCCTCCCTTCCCCTG
TCCCCGTCCCCGT

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FIGURE 5017

MEQLLRAELRTATLRAFGGPGAGCISEGRAYDTDAGPVFVKVNRRTQARQMFEGEVASLEALRSTGLVRVPRPMK
VIDLPGGGAAFVMEHLKMKSLSQASKLGEMADLHLYNQKLREKLKEEENTVGRRGEGAEPQYVDKFGFHTVTC
CGFIPQVNEWQDDWPTFFARHRLQAQLDLIEKDYADREARELWSRLQVKIPDLFCGLEIVPALLHGDLSGNAE
DDVGPIIYDPASFYGHSEFELAIALMFGGFPRSFFTAYHRKIPKAPGFDQRLLLYQLFNLYLNHWNHFGREYRSPS
LGTMRRLK

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FIGURE 5018

GACACTATCCGTGCGGCCAGGCGGAGACCCGGAGGACCGAAGCTTCCGGACGACGAGGAACCGCCCAACATGGCC
TCGGAGAGTGGGAAGCTTTGGGGTGGCCGGTTTGTGGGTGCAGTGGACCCCATCATGGAGAAGTTCAACGCGTCC
ATTGCCTACGACCGGCACCTTTGGGAGGTGGATGTTCAAGGCAGCAAAGCCTACAGCAGGGGCCTGGAGAAGGCA
GGGCTCCTCACCAAGGCCGAGATGGACCAGATACTCCATGGCCTAGACAAGGTGGCTGAGGAGTGGGCCCAGGGC
ACCTTCAAACCTGAACCTCCAATGATGAGGACATCCACACAGCCAATGAGCGCCGCCTGAAGGAGCTCATTGGTGCA
ACGGCAGGGAAGCTGCACACGGGACGGAGCCGGAATGACCAGGTGGTCACAGACCTCAGGCTGTGGATGCGGCAG
ACCTGCTCCACGCTCTCGGGCCTCCTCTGGGAGCTCATTAGGACCATGGTGGATCGGGCAGAGGCGAACGTGATG
TTCTCTTCCCGGGGTACACCCATTTCAGAGGGGCCAGCCCATCCGCTGGAGCCACTGGATTCTGAGCCACGCCG
TGGCACTGACCCGAGACTCTGAGCGGCTGCTGGAGGTGCGGAAGCGGATCAATGTCCTGCCCTGGGGAGGTGGG
GCCATTGCAGGCAATCCCTGGGTGTGGACCGAGAGCTGCTCCGAGCAGAACTCAACTTTGGGGCCATCACTCTC
AACAGCATGGATGCCACTAGTGAGCGGGACTTTGTGGCCGAGTTCCTGTTCTGGGCTTCGCTGTGCATGACCCAT
CTCAGCAGGATGGCCGAGGACCTCATCCTCTACTGCACCAAGGAATTCAGCTTCGTGCAGCTCTCAGATGCCTAC
AGCACGGGAAGCAGCCTGATGCCCCAGAAGAAAAACCCCGACAGTTTGGAGCTGATCCGGAGCAAGGCTGGGCGT
GTGTTTGGGCGGTGTGCCGGGCTCCTGATGACCCTCAAGGGACTTCCCAGCACCTACAACAAAGACTTACAGGAG
GACAAGGAAGCTGTGTTTGAAGTGTGAGACACTATGAGTGCCGTGCTCCAGGTGGCCACTGGCGTCATCTCTACG
CTGCAGATTACCAAGAGAACATGGGACAGGCTCTCAGCCCCGACATGCTGGCCACTGACCTTGCCTATTACCTG
GTCCGCAAAGGGATGCCATTCCGCCAGGCCCACGAGGCCTCCGGGAAAGCTGTGTTTCATGGCCGAGACCAAGGGG
GTCGCCCTCAACCAGCTGTCACTGCAGGAGCTGCAGACCATCAGCCCCCTGTTCTCGGGCGACGTGATCTGCGTG
TGGGACTACGGGCACAGTGTGGAGCAGTATGGTGCCCTGGGCGGCACTGCGCGCTCCAGCGTCCGACTGGCAGATC
CGCCAGGTGCGGGCGCTACTGCAGGCACAGCAGGCCTAGGTCCTCCACACCTGCCCCCTAATAAAGTGGGCGCG
AG

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FIGURE 5019

GCGGACCCCAGAGAGCCCTGAGCAGCCCCGCCGCTGCCGGCCTAGTTACCGTCATACCACGGGAGGAGCCGCAGC
TGCCGCAGCCGGCCCCAGTCTCCATCACCGCAACCAATGAGCAGCAAGGCCGAGACCCAGCAGCCACCCGCCGCC
CCCCGCTTTCCCCCCCACCGCCCCCTCCCGTCCCCCGCCGCCCGCCCTCAGCGCCGCCGACACCAAGCCCGG
CACTACGGGCAGCTGCGCAGGGAGCGGTGGTCCGGGCGGCCTCACATCGGCGGCGCCTGCCAGCGTGGACAAGAA
GGTCATCGCAGTGAAGGTTTTGGGAACAGTAAATGGTTCAATGTAAGGAACGGATATGGTTTCATCAACAGGAA
TGACACCAAGGAAGATGTATTTGTACACCAGACTGCCATAAAGAATAACCCCAGGAAGTACCTTCGCAGTGTAGG
AGATGAAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAGAGGGTGCGGAGGCAGCAAATGTTACAGATCCTGG
TGGTGTTCAGTTCAAGGCAGTAAATATGCAGCAGATCGTAACCATTATAGACGCTATCCACGTCATAGGGGTCC
TCCACGCAATTACCAGCAAAAATTACCAGAACAGTGAGAGTGGGGAAGACCGAGGGATCGGAGAAATGCTCCCGA
AGGCCAGGCCCAACAATGCCGGCCCTACCGCAGGCAAAGGTTCCACCTTACTACATGTGGAGACCCCTGTGGGTG
TCGACCACAGTATTCCAGCCCTCCTGTGCAGGGAGAAGTGATGGAGGGTGCTGACAACCAGGGTGCAGGAGAACA
AGGTAGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCACGATTCCGCAGGGGCCCTCCTTGCCAAAGACA
GCCTAGAGAGTACGGCAATGAAGAAGATAAAATCAAGGAGATGAGACCCAGGGTCAGCAGCCACCTCAACGTCGG
TACCGCAGCAACTTCAATTACCAACGCAGATGCCAGAAAACCTAAATCACAAGATGGCAAAGAGACAAAATCA
GCCAATCCACCAGCTGAGAATTCGTCTGCTCCCGAGGCTGAGCAGGGCGGGGCTGAGTAAATGCCGGCTTACCAT
CTCTACCATCATCCGGTTTAGTCATCCAACAAGAAGAAATATGAAATTCCAGCAATAAGAAATGAACAAAAGATT
GGAGCTGAAGACCTTAAGTGCTTGCTTTTTGCCCCTTGACCAGATAAATAGAACTATCTGCATTATCTATGCAGC
ATGGGGTTTTTTATTATTTTTACCTAAATATGTCCTTTTTTGTTAATAACAAACGTGTTTTTTTTAAAAAGCCTTG
TTTTTCTCAATACGCCTTTAAAGGTTTTTAAATTGTTTCATATCTGGTCAAGATGAGATTTTAAAGCACTTTATT
TTTAATTTGTAATAAAAGTTTACAACCTTGATTTTTTCAAAAAAGTCAACAACTGCAAGCACCTGTTAATAAAGG
TCTTAAATAATAATAATAAAAA

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FIGURE 5020

CCGCGCCACTTGGCCTGCCTCCGTCCCGCCGCGCCACTTCGCCTGCCTCCGTCCCCCGCCCGCCGCGCCATGCCT
GTGGCCGGCTCGGAGCTGCCGCGCCGGCCCTTGCCCCCGCCGCACAGGAGCGGGACGCCGAGCCGCGTCCGCCG
CACGGGGAGCTGCAGTACCTGGGGCAGATCCAACACATCCTCCGTGCGGCGTCAGGAAGGACGACCGCACGGGC
ACCGGCACCCTGTGGTATTTCGGCATGCAGGCGCGCTACAGCCTGAGAGATGAATTCCCTCTGCTGACAACCAAA
CGTGTGTTCTGGAAGGGTGTTTTGGAGGAGTTGCTGTGGTTTATCAAGGGATCCACAAATGCTAAAGAGCTGTCT
TCCAAGGGAGTGA AAAATCTGGGATGCCAATGGATCCCGAGACTTTTGGACAGCCTGGGATTCTCCACCAGAGAA
GAAGGGGACTTGGGCCCAGTTTATGGCTTCCAGTGGAGGCATTTTGGGGCAGAATACAGAGATATGGAATCAGAT
TATT CAGGACAGGGAGTTGACCAACTGCAAAGAGTGATTGACACCATCAAAACCAACCCTGACGACAGAAGAATC
ATCATGTGCGCTTGGAATCCAAGAGATCTTCCTCTGATGGCGCTGCCTCCATGCCATGCCCTCTGCCAGTTCTAT
GTGGTGAACAGTGAGCTGTCCTGCCAGCTGTACCAGAGATCGGGAGACATGGGCCTCGGTGTGCCTTTCAACATC
GCCAGCTACGCCCTGCTCACGTACATGATTGCGCACATCACGGGCCTGAAGCCAGGTGACTTTATACACACTTTG
GGAGATGCACATATTTACCTGAATCACATCGAGCCACTGAAAATTCAGCTTCAGCGAGAACCCAGACCTTTCCCA
AAGCTCAGGATTCTTCGAAAAGTTGAGAAAATTGATGACTTCAAAGCTGAAGACTTTCAGATTGAAGGGTACAAT
CCGCATCCAAC TATTTAAATGGAATGGCTGTTTAGGGTGCTTTCAAAGGAGCTCGAAGGATATTGTCAGTCTTT
AGGGGTGGGCTGGATGCCGAGGTAAAAGTTCTTTTTGCTCTAAAAGAAAAAGGAACTAGGTCAAAAATCTGTCC
GTGACCTATCAGTTATTAATTTTTAAGGATGTTGCCACTGGCAAATGTAAGTGTGCCAGTTCTTTCCATAATAAA
AGGCTTTGAGTTAACTCACTGAGGGTATCTGACAATGCTGAGGTTATGAACAAAGTGAGGAGAATGAAATGTATG
TGCTCTTAGCAAAAACATGTATGTGCATTTCAATCCACGTACTTATAAAGAAGGTTGGTGAATTTACAAGCTA
TTTTTGGAAATATTTT TAGAATATTTTAAGAATTTACAAGCTATTCCCTCAAATCTGAGGGAGCTGAGTAACACC
ATCGATCATGATGTAGAGTGTGGTTATGAACTTTAAAGTTATAGTTGTTTTATATGTTGCTATAATAAAGAAGTG
TTCTGC

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FIGURE 5021

TAAAAACAGGGAATGACTCTACTAATGATGGGGTCAGCAGATGCTCTTCCAGAAGAACCCTCAGCCAAAACCTGTC
TTCGTAGAAGACATGACAGAAGAACAGTTAGCATCTGCTATGGAGTTACCATGTGGATTGACAAACCTTGGTAAAC
ACTTGTTACATGAATGCCACAGTTCAGTGTATTGTTCTGTGCCTGAACTCAAAGATGCCCTTAAAAGGTATGCA
GGTGCCTTGAGAGCTTCAGGGGAAATGGCTTCAGCGCAGTATATTACTGCAGCCCTTAGAGATTGTTTGATTCC
ATGGATAAACTTCTTCCAGTATTCCACCTATTATTCTACTGCAGTTTTTGCACATGGCTTTCCACAGTTTGCC
GAGAAAGGTGAACAAGGACAGTATCTTCAACAGGATGCTAATGAATGTTGGATACAAATGATGCGAGTATTGCAA
CAGAAATTGGAAGCAATAGAGGATGATTCTGTAAAGAGACAGACTCCTCATCTGCATCGGCAGCGACACCTTCT
AAAAAGAAAAGTTTAATCGATCAGTTCTTCGGTGTGAGTTTGAAACTACCATGAAATGTACAGAATCTGAAGAA
GAAGAAGTCACCAAAGGAAAGGAAAATCAACTTCAGCTTAGCTGTTTTATCAATCAGGAAGTCAAGTATCTTTTT
ACAGGACTTAAATTGCGACTTCAGGAAGAAATCACCAACAGTCTCCAACGTTGCAAAGAAATGCCCTTGATATC
AAATCTTCCAAGATCAGCCGGCTGCCTGCTTACTTGACCATTAGATGGTTTCGATTTTTTTATAAAGAGAAGGAA
TCTGTGAATGCCAAAGTTCTTAAGGATGTTAAATTTCTCTTATGTTGGATATGTATGAACTGTGTACACCAGAA
CTTCAAGAGAAAATGGTGTCTTTTCGATCCAATTCAAGGATCTAGAAGATAAAAAAGTGAATCAGCAGCCAAAT
ACAAGTGACAAAAGAGTAGTCCCCAGAAAGAAGTTAAGTATGAACCTTTTTCTTTTGCTGATGATATTGGCTCC
AATAATTGTGGATACTATGACTTACAAGCAGTACTAACACACCAGGGAAGGTCTAGTTCTTCAGGTCATTATGTA
TCATGGGTGAAAAGGAAACAAGATGAATGGATTAAGTTTGATGATGACAAAGTCAGCATCGTAACACCAGAAGAT
ATCTTACGGCTTTCTGGTGGTGGAGACTGGCATATCGCTTACGTTCTACTCTATGGGCCTCGCAGAGTTGAAATA
ATGGAAGAGGAAAGTGAACAGTAATCTTCATTTTAGTATTTATGCTTAGATGTGAAAATAAATGTTATTTGTTGA
TCATTTCTATAATCCAGAGCTTTAGAGGAAGACACATAGGTGGGTTTATGTTTACCTCATTGGAACAAAAGAG
GACAGAAGCAGACCCTCTGTGCACCAACCTAAAAAATTACAGAGAAGAGAAAATTATCTTTGGATTGTGCTGCC
CTATATAAAGGTGGCAGAAAGACATTTTTAAAAAGCTTATTATTTCTTGCAATTATTTAAAAAGTTCAGAGTTGA
AATGCCTTTTCAACCATTTCTTCTGTGGTCATTTTTCTTGCTGCCTTTTTACCCAAGATTCAGCAGTCAGATGT
TTACTGCACACCTATTACCTATTATTTGCTGTTCTTGATGGTTCAAACCACCATTCGTAGCCACCCATCCTTT
GCCTTATCTAACAACATTTTTCCAGGAAGGTGGAAGGAAGTGTGCTCTCATTGTGTGACTCAGTGCTGCTG
TCCATCCCATGGAACATGGGCACAATCAAGTATTTGTCCAGCCTATTGCAGGCTTTTCTGACTTTAAATAAA
TTGTGATCAATAATAGTACCTTTGATTATACATTTATTATTGTGTCTCTCTCTGATGTACTGTGGATTGTACATT
TAACTTTGGAATGGCTTTGTAATAATCAGTCTTAAGAAAATGTTGACAAGCTCTGGTTGCTTATTTTTAGAAAAT
GAGGACATTTAATAATAATAAAAAAAGGGATTAATAGCTTTTGACCTCAAGTCTTTTGTCTTCTGAGTGTGG
AGCTTGGCTGAAGACATGTTTAATACTGTACAATTTCTGAAGATGGTTATTAACACTGTGCTGTTAAGCATCCAT
TAAAAATATGTTATCTTCTTTGCCTGCC

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FIGURE 5022

GGTATTCAGGAAGGAACACAATGTACCAAATGTAAAAATAACTGGGCACTGAAGTTTTCTATCATATTATTATAC
ATTTTGTGTGCCCTTGCTAACAATCACAGTAGCCATTTTTGGGATATAAAGTTGTAGAGAAAATGGACAATGTCACA
GGTGGCATGGAAACATCTCGCCAAACCTATGATGACAAGCTCACAGCAGTGGAAAGTGACCTGAAAAAATTAGGT
GACCAAACTGGGAAGAAAGCTATCAGCACCAACTCAGAACTCTCCACCTTCAGATCAGACATTCTAGATCTCCGT
CAGCAACTTCGTGAGATTACAGAAAAAACAGCAAGAACAAGGATACGCTGGAGAAGTTACAGGCGAGCGGGGAT
GCTCTGGTGGACAGGCAGAGTCAATTGAAAGAACTTTGGAGAATAACTCTTTCCTCATCACCCTGTAAACAAA
ACCCTCCAGGCGTATAATGGCTATGTCACGAATCTGCAGCAAGATACCAGCGTGCTCCAGGGCAATCTGCAGAAC
CAAATGTATTCTCATAATGTGGTCATCATGAACCTCAACAACCTGAACCTGACCCAGGTGCAGCAGAGGAACCTC
ATCACGAATCTGCAGCGGTCTGTGGATGACACAAGCCAGGCTATCCAGCGAATCAAGAACGACTTTCAAATCTG
CAGCAGGTTTTTCTTCAAGCCAAGAAGGACACGGATTGGCTGAAGGAGAAAAGTGCAGAGCTTGCAGACGCTGGCT
GCCAACAACTCTGCGTTGGCCAAAGCCAACAACGACACCCTGGAGGATATGAACAGCCAGCTCAACTCATTACA
GGTCAGATGGAGAATCACCCTATCTCTCAAGCCAACGAGCAGAACCTGAAAGACCTGCAGGACTTACACAAA
GATGCAGAGAATAGAACAGCCATCAAGTTCAACCAACTGGAGGAACGCTTCCAGCTCTTTGAGACGGATATTGTG
AACATCATTAGCAATATCAGTTACACAGCCCCACCACCTGCGGACGCTGACCAGCAATCTAAATGAAGTCAGGACC
ACTTGCACAGATACCCTTACCAAACACACAGATGATCTGACCTCCTTGAATAATACCCTGGCCAACATCCGTTTG
GATTCTGTTTTCTCTCAGGATGCAACAAGATTGATGAGGTGAGGTTAGACACTGAAGTAGCCAACCTATCAGTG
ATTATGGAAGAAATGAAGCTAGTAGACTCCAAGCATGGTCAGCTCATCAAGAATTTTACAATACTACAAGGTCCA
CCGGGCCCCAGGGGTCCAAGAGGTGACAGAGGATCCAGGGACCCCCTGGCCCAACTGGCAACAAGGGACAGAAA
GGAGAGAAGGGGGAGCCTGGACCACCTGGCCCTGCGGGTGAGAGAGGCCCAATTGGACCAGCTGGTCCCCCGGA
GAGCGTGGCGGCAAGGATCTAAAGGCTCCCAGGGCCCCAAAGGCTCCCGTGTTCCCTGGGAAGCCCGGCCCT
CAGGGCTCCAGTGGGGACCCAGGCCCCCGGGCCACCAGGCAAGAGGGACTCCCCGGCCCTCAGGGCCCTCCT
GGCTTCCAGGGACTTCAGGGCACCGTTGGGGAGCCTGGGGTGCTGGACCTCGGGGACTGCCAGGCTTGCCTGGG
GTACCAGGCATGCCAGGCCCCAAGGGCCCCCGGCCCTCCTGGCCCATCAGGAGCGGTGGTGCCCTGGGCTGC
AGAATGAGCAACCCAGCACCGGAGGACAATGGCTGCCCGCCTCACTGGAAGAACTTCACAGACAAATGCTACTA
TTTTTCAGTTGAGAAAGAAATTTTTGAGGATGCAAAGCTTTTCTGTGAAGACAAGTCTTCACATCTTGTTTTCAT
AAACACTAGAGAGGAACAGCAATGGATAAAAAAACAGATGGTAGGGAGAGAGAGCCACTGGATCGGCCTCACAGA
CTCAGAGCGTGAAAATGAATGGAAGTGGCTGGATGGGACATCTCCAGACTACAAAAATTGGAAAGCTGGACAGCC
GGATAACTGGGGTTCATGGCCATGGGCCAGGAGAAGACTGTGCTGGGTGATTTATGCTGGGCAGTGGAAACGATTT
CCAATGTGAAGACGTCAATAACTTCAATTTGCGAAAAAGACAGGGAGACAGTACTGTCATCTGCATTATAACGGAC
TGTGATGGGATCATATGAGCAAATTTTCAGCTCTCAAAGGCAAAGGACACTCCTTTCTAATTGCATCACCTTCTC
ATCAGATTGAAAAAAGCACTGAAAACCAATTACTGAAAAAAATTGACAGCTAGTGTTTTTTACCATCCG
TCATTACCCAAAGACTTGGGAACATAAATGTTCCCCAGGGTGATATGCTGATTTTCATTGTGCATGGACTGAA
TCACATAGATTCTCCTCCGTCAGTAACCGTGCGATTATACAAATTATGTCTTCCAAAGTATGGAACACTCCAATC
AGAAAAAGTTATCATTGGTCGTTGAGTTATGGGAAGAACTTAAGCATATACTGTGTAAACAGTGCCATACATTT
CTAAATCCCAAGTGTAGGAAAAATATGCAGACATACAGATATATAGGCCAACTATTAGTAATAATATGAAATAT
ACTTAAAGAGCTTTTAAACTTTGTATTTTGTACAAAATATTTGTCTTTTACAATTTTTTTCCTTTTTTTTTTT
TTGTCATTTTACCGACATAATACATGGAGCCAAAGAAAACAATAATGGTACTAATAAAAACTCCTAGGGTTTCCT
GTCAGATTTAATTCTACCCAGTGGCAAAGAATTTTTTCAATTGTGGCTTTAAAAAATAATTAAATATACATGTA
TATATATAT

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FIGURE 5024

MKRSSVSSGGAGRLSMQELRSQDVNKQGLYTPQTKEKPTFGKLSINKPTSERKVSFLFGKRTSGHGSRNSQLGIFS
SSEKIKDPRPLNDKAFIQQCIRQLCEFLTENG YAHNVSMKSLQAPSVKDFLKIFTFLYGF LCP SYELPDTKFEEE
VPRIFKDLGYPFALSKSSMYTVGAPHTWPHIVAALVWLIDCIKIHTAMKESSPLFDDGQPWGEETEDGIMHNKLF
LDYTIKCYESFMSGADSFDEMNAELQSKLKDLFNVD AFKLESLEAKNRALNEQIARLEQEREKEPNRLES LRKLK
ASLQGDVQKYQAYMSNLESHSAILDQKLNLN EEIARVELECETIKQENTRLQNIIDNQKYSVADIERINHERNE
LQQTINKLTKDLEAEQQKLWNEELKYARGKEAIETQLAEYHKLARKLKLIPKGAENSKGYDFEIKFNPEAGANCL
VKYRAQVYVPLKELLNETEEEINKALNKKMGLED TLEQLNAMITESKRSVRTLKEEVQKLDDLYQQKIKEAEEED
EKCASELESLEKHKHLL ESTVNQGLSEAMNELDAVQREYQLVVQTTTEERRKVGNNLQRLLEMVATHVGSVEKHL
EEQIAKVDREYEECMS EDLSENIKEIRD KYEKKATLIKSSEE

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FIGURE 5025A

GAGAAGAAGTGGCAGGTGATGCTGAAGCGGGGAGAAGCGGCAGAGCCGGCCACACAGTGCAGGGGATGGAGACA
GGTGCTGGGCTGGTCCTCCTGCAGCATCCTCAGTTGTTGGAGGGCAGTCATCCTCAGGCCGTACCCAGCCAGAGA
AGAAAAAGAACAGTGTGAAGCCACGTGTGATAGCCGTCCAACATCGGCTCTTCCCTCCAATTACATTGTAGTTGA
TTGTAGTCTCAAACCATGAATTATGTGGGACAGCTGGCTGGGCAGGTGATTGTCACTGTGAAGGAACCTCTACAAG
GGCATTAAACCAGGCCACCCTCTCTGGGTGCATTGATGTCATCGTGGTACAGCAGCAGGATGGCAGCTATCAGTGT
TCACCTTTTTCACGTTTCGGTTTGGAAAGCTGGGAGTCTGAGATCCAAAGAGAAAGTGATTGATATAGAAATCAAC
GGCAGTGCAGTGGATCTTCACATGAAGTTGGGTGATAACGGAGAAGCTTTCTTTGTTGAGGAGACTGAAGAAGAA
TATGAAAAGCTTCCTGCTTACCTTGCCACCTCACCAATTCTACTGAAGATCAGTTCTTTAAAGATATTGACACC
CCTTTGGTGAAATCGGGTGGAGATGAAACACCATCTCAGAGTTTACAGCATCTCACACGCTCTTGGAAACAGAGACA
ATTTTTACTCCAAGTTCTGTGAAAAAGAAAAACGAAGGAGAAAGAAATACAAACAGGACAGTAAGAAGGAAGAG
CAGGCCGCATCTGCTGCTGCAGAAGACACATGTGATGTAGGCGTGAGCTCCGATGATGACAAGGGGGCCAGGCA
GCACGAGGATCTTCAAATGCTTCTTGAAGAAGAAGAATGTAAAGAGCCTTTGCTCTTCCATTCTGGGGATCAT
TACCCCTTATCTGATGGAGATTGGTCCCTTTAGAGACCACCTATCCCAGACAGCGTGTCTAAGAGTGATTCA
GAGCTGGAGGTGAAACCTGCGGAGAGCCTGCTCAGATCAGAGTCTCACATGGAGTGGACGTGGGGCGGATTCCCA
GAGTCCACCAAGGTTCAGCAAAAGAGAACGATCTGACCATCATCCTAGGACAGCTACAATTACCCATCAGAAAAAT
ACTCATTTTTCGGGTAATTTCCAGTGAGGACAACCTCATCAGTGAAGTTGAGAAGGATGCTTCCATGGAAGACACT
GTCTGTACCATAGTGAAGCCCAAACCCAGAGCCCTGGGTACACAGATGAGCGACCCAACATCTGTGGCAGAGCTT
CTCGAACCTCCTCTTGAGAGTACTCAGATTTCACTATGTTAGATGCTGACCACCTTCCCAACGCAGCCTTAGCG
GAGGCGCCCTCAGAATCCAAACCGGCAGCTAAAGTAGACTCGCCGTCAAAGAAGAAAGGTGTTTCAAAAAGAAGC
CAACACCAGGGACCTGATGATATTTACCTTGATGACTTAAAGGTCTAGAACCTGAAGTTGCAGCTCTTTATTTT
CCTAAAAGTGAATCGGAGCCCGGTTCCAGGCAGTGGCCCGAGTCTGACACACTCTCTGGCTCCCAGTCCCCACAG
TCCGTGGGAAGCGCAGCTGCAGATAGCGGCACCGAGTGCCTCTCAGATTCTGCCATGGACTTGCCTGACGTTACC
CTCTCCCTTTGCGGGGCGCTCAGTGAAGTGGAGAAATTTCAAAGAAAAATTCATGGAGCATATCATTACTTAT
CACGAATTTGCAGAAAACCTTGACTTATAGACAATCCTAACCTTGTAATAAGGATATATAATCGTTACTATAAC
TGGGCTTTGGCAGCTCCCATGATCCTTAGCTTGCAAGTATTCCAGAAGAGCTTGCCCTAAGGCCACAGTTGAGTCC
TGGGTGAAAGACAAGATGCCAAAGAAATCTGGTTCGCTGGTGGTTTTGGCGAAAGAGAGAAAGCATGACCAAACAG
CTGCCAGAATCCAAGGAGGGAAAAATCTGAGGCACCGCCAGCCAGTGACCTGCCATCCAGCTCCAAGGAGCCGGCC
GGTGCCAGGCCCGCCGAGAATGACTCCTCGAGTGACGAGGGATCACAGGAGCTCGAAGAATCCATCACAGTGGAC
CCCATCCCCACAGAGCCCTGAGCCACGGCAGCACAACTTCATATAAGAAGTCTCTCCGCCTCTCCTCAGACCAG
ATCGCAAAACTGAAGCTCCACGATGGCCCCAAATGATGTTGTGTTTAGTATTACAACCCAGTATCAAGGCACCTGT
CGCTGTGCAGGGACCATTTACCTGTGGAACCTGGAATGACAAGATCATATTTCTGATATTGATGGGACAATAACC
AAGTCGGATGCTTTGGGACAGATTCTCCACAGCTGGGCAAAGACTGGACCCACCAGGGTATAGCAAAGCTCTAC
CATTCCATCAATGAGAATGGCTACAAGTTTCTGTACTGCTCGGCTCGTGCCATCGGCATGGCCGACATGACCCGT
GGCTACCTGCACTGGGTCAATGACAAGGGCACAATCTTGCCCCGGGGCCCCCTGATGCTGTCCCCCAGCAGCTTG
TTCTCCGCCTTCCACAGAGAAGTGATAGAAAAGAAACCAGAGAAGTTCAAATTTAGTGTCTAAATGATATCAAG
AATCTGTTTTGCCCCGTCTAAGCAGCCCTTCTATGCTGCCTTTGGAAACCGTCCAATGATGTCTATGCCTACACA
CAAGTTGGAGTTCCAGACTGTAGAATATTACCGTGAACCCCAAGGGTGAATTAATACAAGAAAGAACCAAAGGA
AACAAGTCATCGTATCACAGGCTGAGTGAGCTCGTGGAGCATGTGTTCCCCCTTCTCAGTAAGGAGCAGAATTCC
GTTTTTCCCTGCCCGGAGTTTTCAGCTCCTTCTGCTACTGGCGAGACCCGATCCCTGAAGTGGACCTGGATGACCTG
TCTTGAGGCGGCACCTCAGTGGGTGGGCAGGGCTTGGTCCCCCTCCCCACAGCAAGGGAAGGCAGCTGGCTCTTC
TGCTGACCTCAGATACCAGCCTTCCCCAGCGGGGACGGGTGCTTCTGGAGCTGGTCCCGCCATCCTCCTTTGCCCT
TCCCAGGCCAGCTGCTCAGGCTCGGCAGGTCTGCAGCTCAGCTCCTGGAAGGAGAAGGGAGGAAGTGGGCTGGG
GCTGGAGGCTGGGATCCCTCCTTTGTGGGTGCGACACATGTTTCTGCTGTGAGCTGGGGCCTCCTTCCATTGC
ATCATTTTTAAAGGAAGAAAAAGCAGCTAAAAAGAGTGGACCAAACACTGCACACAGTGAAGTGTTCAGTTT
CCACTGGGCAGTTGAGGTGGCTTCTGTAACAGGGCTGTCTTCAGATGTCAGGGTCCCTGAACTGCTGCGGGCCC
AGTCAGTGATGCTGGCTGAAGCTGCCTGTGCAGTTTCTTCTCTGGTGCCTCATTTTCTGCTACACTGAAGGGG
TCAGCTGCTCCAGTGGGCCAAGTTGGGCAGGACCCCCGCCCTGCAGGGCCCATGCACCAGAGCCACTGAGCCCA
GTCCCATAAACCTGGCCCTCTTTGGGGAAGATCCCCACAGAGCATCCTCCTCTCATCTGTGACAACTCCACGAG

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FIGURE 5025B

CCCTTAATTTCTTAGTCCTCACCAGAAGAACAGGTCTCACAAGTATATATTTGATGTCTGTAATAAAAGTGGGAA
GGTGGGTCTTAAACAGACCAAACCCCGCCCCGCCCAACAACCTCTGCTTTTAGGGAGGCCTCCGAAATGCAGA
TAGGCGGTGAGTGGGGTCTTGGGAAGAGCGCTGAATCCCTCTGCTTGCTGCCTGGTGTGGGCCTTTGGAAAGCA
TCTTGCCTTGGGACAGGATTTCTAAAATTCTGTGATTGAGATTTGTCAGGGAAGCACAGTGAAGCTTGCTTAAAG
GCACTGGCCAGCAGTGTGTGACTTTGGCTTTTGGGATCACACCCTGTAATCGGGCCCGTGGGAAGCAGCGTCAAAG
AGGGGTCTTGGAGCTCCTATGGAGCAGACTGCCCCCGAGCAGTGTCCCCAGCCTAGCCCTGTGAGACCCCATGG
GGACACGGGTGCCTATGTATTTTCACTAAAATATACATGGTAGCTCCATTTACTGATGCGGTTGTAATGAGCTCA
CATCGTGTCTGAAGAGATGGCACCAGGGAAGGTGTGCCATAAGCTGCTCCAGAGCTTTTGGTATGCTGAGTGT
GACAGAGCTGCACTCTTAACATCAAGAGAAGTGTGAGGAGCCAGAACCAACCCAGGCTTGGTCTCCATTGGC
GAGAACACAGGACGTGGTGGTTTCTGAGCAGAGAGGGATCTGCAGATACAGGCTTGGCGCTCGGGGTGGTCTCGT
GGCCAACTCTTCATGCCCTGCCGTTGTAGTGGAACCTCTACATGTTTTAGTTTGCTTCACCTAAAATAATGCTG
ATCTAGAGATAGAGAAAATAGGGGTGGTTATTTTTCCAGATTGGAGAGTTGAAAGTCCCTGACTGATTTTCCAGCCAT
TTTCTAGTGCTTGTGCGGATGCAGAGACAATGTTGAAATCCCCTAAACACAGTTCTCAGTGGCAAAACCTAGGAA
GGCTCATGTTCCAGAGAAGGGACCACATGAGCCTTCTCCCATGCAAAGCTTCCCCAGCTTAAATAGTTGATAA
GGACTAATTGTTTAAATGAGTTTATTTATCTACAGTAGGTTAGGGATCCTGGGTTCTGTTTATATGAAGTTCTTCC
CAGTTTGTGAATTCTAGTACAGCAGCCATGCAGCCACCTTATTTTATAGATGCCATCTGTGTGCTCCTCTTGACTA
CCTTCTATTTAGAGGAAGAATGAGAGCTTTGTGTGTTTAACTGAGCTTATAGTAGGACTTCTTTGCATATGTATG
GTACTGAAAAATCTTAATATACATCTTTAATCCTTTTTAGGTTGTCTTTAAAGAGTTTTTACTAGTTTCTTTT
TCTTGACAGCTCTTCTCTTTGGACACATGGGCCCTTCTAGAGGGTTGAGTCTAGGACCCGGCTCTCCTGGCCCTG
TGTTGAGGGTAGCTGGTCCCTCTGTCCCTGTGTCTGCTAGCACTAGACTTTGTTGCTGCAGATTGATCCAGTGGG
TACATAGGCTAATTAATGTGAGTCTTTTCCCTGTTTAAAGGAGTCCCTCTTGCTGAAAGTAGATGATTACTATT
GCTGTAGTGTAGGAAAGTATTAAGTTTGTGCTGAAATCCATTGCCATTTGGTACAAATGACATTTGTTCTTTC
TGTGAAAGAGATGCCCTCGAGTGTGTTGTACACAAACCCTTAGGATGGTGAGTTGAAGCATCACCCCTCGCGCTA
TCTTCAGTGACGGGTGACGGCTCAGGGAGATGGCAGGCAGATTGGGCTCTAAGTCATTATTTCTCTCAGTTACTCC
ATTGGTGAAATGGCCCTTCCCTCTTTGCAGTTCAGTCTAAGTCTCGTATTTGCTTTGCTGTCTGTGTGCTGAAG
CTCGTCCCGTGTGAGTTGCTGTCTGCCCTTGTGAGGCTGTGAGGTGCTCGTGTAGACCTGGAGCATGCAGGCTG
CCTCCGTTTTTGGGTACTGTGTTGTGTTTTGCTCTGTCTAAAAACATCTGCATAGTTTTCAACTGGAAAAAGAAA
AACTTAAAAATGGGATGTCCTAAAAATGAAAGCTGCTCAAAGTCACAGAACAACCGAGGGACAAAGGAGATTGGA
TGACTGGGAAGCGCTGGCCCGGAACAGCCCCTGCAACTGTGGGGCCTGCACACAGCCCCTTCCACAGTTGGCACTG
CAGGTGCAGGCCAACCCCTTTAAAGAATAAAACAAGGAAGTCAGTCTTTTCACTTTTACAAGTTGGCAAAACAGA
CTTCCGGGGAATTTTCGATGTTTTCCCGTGTGTAGAGCTTCCAGGGTTTAAATAAAACTGGTTAAAAATTGAGTCT
TTCCCTGAAGTAAGTGTCTTTTCCAGATGAAAACCTACTCTTTTGGTTTTTGTGTTGAAAGTAAGAAAGGGAGGGGAA
ACTTTGCTCTTTTAAATAATTATGTTTCAGCCTATGATGAAGTATTTGATTATTAGACAGCAATGTCTACTAATAAGT
TTTAAGTTGTCCAAAGTTAATTGTAAACATCATCAGTACAGTACTCTTAGTTACAGTAAAGCAATTGTTGCAAGA
TGAATGGCTAATATTTTTGGTGCAGTGTGTTGATGTTCAAAACAAAATGTTACAACAATAAACGAACATAACAT

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FIGURE 5026

GAATTAAACAACCACCATGTCGAGCAAAAAGGCCAAAGACCAAGACCACCAAGAAGCGCCCTCAGCGTGCAACATC
CAATGTGTTTGCCATGTTTGACCAGTCACAGATTGAGGAGTTCAAAGAGGCCCTTCAACATGATTGATCAGAACAG
AGATGGCTTCATCGACAAGGAAGATTTGCATGATATGCTTGCTTCTCTAGGGAAGAATCCCACTGATGCATACCT
TGATGCCATGATGAATGAGGCCCCAGGGCCCATCAATTTACCATGTTCTTGACCATGTTTGGTGAGAAGTTAAA
TGGCACAGATCCTGAAGATGTCATCAGAAACGCCTTTGCTTGCTTTGATGAAGAAGCAACAGGCACCATTGAGGA
AGATTACCTAAGAGAGCTGCTGACAACCATGGGGGATCGGTTTACAGATGAGGAAGTGGATGAGCTGTACAGAGA
AGCACCTATTGACAAAAAGGGGAATTTCAATTACATCGAGTTCACACGCATCCTGAAACATGGAGCCAAAGACAA
AGATGACTGAAAGAACTTTAGCTAAAATCTTCCAGTTACATTGTCTTACTCTCTTTTACTTCTCAGACACTTCCC
CCACCCTCATAGAACCTGTTGCATGCAACTTAGTTTTACAGCTTTGCCTCTTCTTTTTGATGTATTTATTCCAGA
CCTTTCTGCCACTTAGCACTTGTATAATCAGACTGGAAATGGGGATGAGGGTGTAATTTGTATTGAAAAAGATCG
CGAATAAAAAATCAACAAATGTGAAAGCCCAGAAAAATATATTCGTATTTCTGGTTTTGCTGGATTTTACATTTT
TATATAATAAAAAATGTTATTTGAAATAAAGATTATGCTGACTCAAATGCAATGT

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FIGURE 5027

GAATTAAACAACCACCATGTCGAGCAAAAAGGCAAAGACCAAGACCACCAAGAAGCGCCCTCAGCGTGCAACATC
CAATGTGTTTGCCATGTTTGACCAGTCACAGATTCAGGAGTTCAAAGAGGCCTTCAACATGATTGATCAGAACAG
AGATGGCTTCATCGACAAGGAAGATTTGCATGATATGCTTGCTTCTCTAGGGAAGAATCCCACTGATGCATACCT
TGATGCCATGATGAATGAGGCCCCAGGGCCCCATCAATTTACCATGTTCCCTGACCATGTTTGGTGAGAAGTTAAA
TGGCACAGATCCTGAAGATGTCATCAGAAACGCCTTTGCTTGCTTTGATGAAGAAGCAACAGGCACCATTCAGGA
AGATTACCTAAGAGAGCTGCTGACAACCATGGGGGATCGGTTTACAGATGAGGAAGTGGATGAGCTGTACAGAGA
AGCACCTATTGACAAAAAGGGGAATTTCAATTACATCGAGTTCACACGCATCCTGAAACATGGAGCCAAAGACAA
AGATGACTGAAAGAACTT

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FIGURE 5028

AACCACCACCATGTCGAGCAAAAAGAACAAGACCAAGACCAAGAAGCGCCCTCAGCGTGCAACATCCAATGTGTT
TGCTATGTTTGACCAGTCACAGATTCAGGAGTTCAAAGAGGCCTTCAACATGATTGATCAGAACAGAGATGGTTT
CATCGACAAGGAAGATTTGCATGATATGCTTGCTTCTTTAGGGAAGAATCCAACCTGATGAGTATCTAGATGCCAT
GATGAATGAGGCTCCAGGCCCATCAATTTACCATGTTTCTCACCATGTTTGGTGAGAAGTTAAATGGCACAGA
TCCTGAAGATGTCATCAGAAATGCCTTTGCTTGCTTTGATGAAGAAGCAACTGGCACCATACAGGAAGATTACTT
GAGAGAGCTGCTGACAACCATGGGGGATCGGTTTACAGATGAGGAAGTGGATGAGCTGTACAGAGAAGCACCTAT
TGATAAAAAGGGGAATTTCAATTACATCGAGTTCACACGCATCCTGAAACATGGAGCCAAAGACAAAGATGACTG
AAATAACTTCAAATTCAGCCAAACGTTCTTGTGGCACTTTGGGTATTCTGAGATTTTCTCTTGCCATGCCCTT
AGCTTTACAGCTTTTGCAATTCCTGTTGTATTTATTCTCAGCCATTTTGGGCATATGTATCTTTATAATCAGACT
GGAAACGGGACTTTCTATTAATATCATTTTCAGAATAAAAAATAGGGTAATTTAACCTACCAGCCCTTCTCCCCC
AATAACTGTGGTCTATACAGAGTCAATATATTTTTTTCAGAGAAAGTTATTGCTCGATTTTTTCTGAATCATAAT
TAAACTTTATGATAAAATA

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FIGURE 5029

MSSKRTKTKTKKRPQRATSNVFAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGKNPTDEYLDAMMNE
APGPINFTMFLTMFGEKLNGTDPEDVIRNAFACFDEEATGTIQEDYLRELLTTMGDRFTDEEVDELYREAPIDKK
GNFNYIEFTRILKHGAKDKDD

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FIGURE 5030

ATGCACGCACACACGCATACAGACACCACACACGAGAGAGAGAGATACAAAAGCAGACCAGAGGCACCTTTTAGA
CTGACACATGAGTGGATTTCGGAGTCTGCAGGTTGCAGCAGAGGAAACTGTGAGCTGGAGAGGCAACCTCATTCT
AGCAGCGGCAGAGTTTTGGGGCCTCTTTGGAGACAGGGACGTGGGCACAGGGATCTAATGGAGACAGCCCATCAG
CCTGCAGAAGGAACCAGGTCATTGGCCCTGGCAGATCCTTCTGCCCATAGCCTGCTATTGGGTTCTGATAACATC
CAGGACTCAGGACTCAGCTTTGACTTTGCTTTTGGCTGCCCGTATTGAGACATGAACTGAAAAAGGAGGCAACA
CTTCACGATCGTTTGAGAGAACAACACAGGCAAATTTGGAATCAGACTCTTCACATTCAAAATCAAAAAGCCTC
TGTAGTTTGAACTTCAATGGAAAACATGAAAAGGTGAACAGTCAGCCCAGGCAAAAGGCAATCATGTTCAAGACC
TTGAGCACCCCTAGACCCCTGACTGTGCAAGATTTGAAGGGACGACTGCTTCTCCTAAGCCTCAGAGCCTTGCTCTT
TGCATTGAGCAGGATAATGAATCTAGATTTTATTTCTGTTCTTTGCCCAGACTTGTACAGCAGGCAAAGTGTTG
AAAATCAAAGGAAAAAGAAGATATTGACTTGGATAATCTCTTCAGAGAGGCCATGGAGGGAAACCAGGAGTGCTC
ACTGAACTTGTGAAGAAGCCACAGCCAAGCCCTGGGGCCCAGTCATCCTGCAGCAGTGACCACTCCCCGGCAGGG
AGTGCAGCCAATACAGACAGTGGTGTGGAATGACTGGCAATGCAGGGGGCAGCACTGAAGACCTCTCCAGCTTG
GACGAGGGACCTTGCAATTGCTGGCACTGGTCTGTCCACTCTTCGCCGCCTTGAGAACCTCAGGCTGGACCAGCTA
CATCAACTCCGGCCAATAGGGACCCGGGGTCTCAAACCTGCCAGCTTGTCACACCCGGTGAGACCTGGGTGTGG
GAGTGCTTGCCAAAGTTGCGGACTGCCAACCACAGCTGGTACTGTCCAGGGCCTGCCCTGAGCACACTGACATCT
GCCCGTGCTGAAGATGCAAAGCCTGTTGCAGCAGGAGCTGCTGGCACCAGCCCTGATCATTCCCTCCTTTTGCAA
TGCCTCAGCTCTTTTATTTCCATCTGTTGTTCTATGATAGGCTGCTCTCCCCACGTTTCTGATAATTATGGGGTA
AAACCGGAAGGCTGCAGACATCAGAGGAGAGCTCTATATTCTCCTACTTTAAAAATGTTGCCTAAGACAAGCAAC
AAACTCAATGTACTTTGCCCTCTGAGAGAGCTCAGAATCCTTGTCCTCAGGAATCATGCGATCAATGCAAAGGAG
CTCGCCATGATCGCCACCGGCGGCCTGCTAAGGATTTCCGCCAGAAAGCAGGATCCACTCCGCCCCCAAGCCAG
ATACCCAAGCGCAAGCGGAAAGCCAAGAAGAGGCGCAAGAACGACGTGGTGGTGGTTAATGTGTTTGGAGCACTA
AATACGACTTGA

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FIGURE 5031

AGAGCTTCTTTGAAGGGCAGTCTGCACCATGGGACTCGGCTAAGAAAGATGAGAACAGAATGAAGAACAGATACG
GGAATATCATTGCATACGATCATTCCCGAGTGAGGCTGCAGACAATAGAAGGAGACACAAACTCAGACTATATCA
ATGGCAATTATATCGATGGTTATCATCGACCCAATCATTACATTGCTACCCAAGGGCCAATGCAGGAAACCATCT
ATGACTTCTGGAGGATGGTGTGGCAGCAAACACTGCAAGTATCATCATGGTGACCAATCTTGTGGAAGTGGGAA
GGGTCAAATGCTGCAAATACTGGCCAGATGACACAGAGATATATAAAGACATTAAAGTTACCCTAATAGAAACAG
AACTACTGGCAGAATATGTGATAAGAACATTTGCTGTTGAAAAGAGAGGTGTGCATGAAATCCGAGAGATCAGAC
AGTTTCACTTCACTGGCTGGCCGGATCATGGGGTCCCCTACCATGCCACCGGCCCTGCTGGGATTCTGTGCGGCAAG
TCAAGTCCAAGAGCCCGCCAGTGCAGGCCCACTGGTGGTGCAGTGCAGTGGTGCAGGGAGGACTGGCTGTT
TCATCGTCATTGATATCATGTTGGACATGGCCGAAAGGGAAGGGGTCGTAGACATCTACAACCTGCGTCAGGGAGC
TGCGGTACGGAGGGTGAACATGGTGCAAACAGAGGAGCAGTATGTGTTTATCCACGATGCGATCCTGGAAGCCT
GTCTTTGTGGGGACACCTCTGTGCCTGCTTCCCAAGTTAGGTCTCTGTATTATGACATGAACAACTGGATCCAC
AGACAAACTCAAGCCAGATTAAAGAGGAATTCCGGACGCTAAACATGGTGACACCAACGCTGCGAGTAGAGGACT
GCAGCATCGCACTGTTGCCCGGAACCATGAGAAAAACCGGTGCATGGACATCCTGCCCCCAGACCGCTGCCTGC
CCTTCCTCATCACCATCGATGGGGAGAGCAGCAACTACATCAATGCTGCCCTCATGGACAGCTATAAACAGCCTT
CAGCTTTTATAGTCACCCAGCATCCTTTGCCAAACACAGTGAAAGACTTTTGGAGACTGGTCCTGGATTATCACT
GCACATCCGTAGTTATGCTAAATGATGTGGATCCTGCCAGTTGTGTCCACAGTACTGGCCAGAAAACGGAGTAC
ACAGACACGGCCCCATCCAGGTGGAATTTGTCTCTGCTGACCTGGAAGAGGACATCATCAGCAGGATATTCCGCA
TTTACAATGCCGCCAGACCCCAAGATGGATATCGGATGGTGCAGCAATTCCAGTTCCTGGGCTGGCCGATGTACA
GGGACACACCAGTGTCTAAGCGCTCCTTCTTGAAGCTCATTGCCAGGTGGACAAGTGGCAAGAGGAGTACAATG
GCGGGGAAGGCCGCACGGTTGTGCACTGCTTGAACGGGGGAGGCCGAGTGGGACGTTCTGCGCCATCAGCATCG
TATGTGAGATGCTCCGGCACCAGAGAACCGTGGATGTCTTTCACGCTGTGAAGACACTGAGGAACAACAAGCCCA
ACATGGTTCGACCTCCTGGATCAGTACAAGTTCTGCTACGAGGTGGCCCTGGAATACTTGAATTCTGGCTGATGGT
GTAAACAGCTCTGCAAACAATCCCTTTCATACCACAAAGCCAAGACGTTCCATGGTATTTGTGCAAAAGAGATGA
AGACTTCTCAATATGCTTATTTTGCTTTGCATAATTGGCTCTTTTAAAGAGCCCAAGAAAGTGTTCATAAAATTG
CTTGCACTGCCCCAATCCCAGTAATGCTGCTGCCTGACAGAAACACACACAGCCACAGTTGCCAAATCCCGTAC
TCCTTGCCACCGGCTTCCTAGAGCAGCGTAGACAGCTGGTAAACTGAAGAGCACAACTATATTCTTATGAAGGAA
TTTGTACCTTTGGGGTATTATTTTGTGGCCCGTGACCCTCGTTATTGTTACAGCTGAGTGTATGTTTTTGTCTG
TGGAGAATGCTATCTGGCATTATGGTAATATATTATTTTAGGTAATATTTGTACTTTAACATGTTGCATAATATA
TGCTTATGTAGCTTTCAGGACTAACAGATAAATGTGTAATGAACAAAGATATGTTGTATGAGTCGTCGTTTCTG
TCAGATTTGTATTGTTTCCAAGGGAAAAGCTTGGGGGAGGACTCAGTTTCAAAAATGCAAAACTCAACGATCAGA
TTCACGGACCCAGAGCTTTTCCATGTGTTTATATTGTAAATATTTTTGATTTCATCAAATTATTTATTTCATTAA
AGAAATTTTTGTG

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FIGURE 5032

CGGAGGGTGGGGAGCGGAAAGCAGGACGCACGGCTCCCGCGGCCCCGCTGGCTGCCCTTCCCGCCAGCGCAGGTGT
GGGACGGGCGGCGGACTAGGCACAGAGCTGCGGGAGCAGGCACAGGGAGTGTGGAGCCTGGCGGCGGGACGGCGG
GATCCGGTGGGAGCCGGAGTCCCGCCGAGGGGGGCTGGAGGTGGAGGGGCCCCGGCGAGGCCGCGATGAAGCCGAG
CGGCGAGGACCAGGCGGCGCTGGCGGCCGGCCCCCTGGGAGGAGTGCTTCCAGGCGGCCGTGCAGCTGGCGCTGCG
GGCAGGACAGATCATCAGAAAAGCCCTTACTGAGGAAAAACGTGTCTCAACAAAAACATCAGCTGCAGATCTTGT
GACAGAAACAGATCACCTTGTGGAAGATTTAATTATTTCTGAGTTGCGAGAGAGGTTTCCTTCACACAGGTTTCAT
TGCAGAAGAGGCCGCGGCTTCTGGGGCCAAGTGTGTGCTCACCCACAGCCCGACGTGGATCATCGACCCCATCGA
CGGCACCTGCAATTTTGTGCACAGATTCCCGACTGTGGCGGTTAGCATTGGATTTGCTGTTTCGACAAGAGCTTGA
ATTCCGAGTGATTTACCACTGCACAGAGGAGCGGCTGTACACGGGCCGGCGGGGTCGGGGCGCCTTCTGCAATGG
CCAGCGGCTCCGGGTCTCCGGGGAGACAGATCTCTCAAAGGCCTTGGTTCTGACAGAAATTGGCCCCAAACGTGA
CCCTGCGACCTGAAGCTGTTCCCTGAGTAACATGGAGCGGCTGCTGCATGCCAAGGCGCATGGGGTCCGAGTGAT
TGGAAGCTCCACATTGGCACTCTGCCACCTGGCCTCAGGGGCCGCGGATGCCTATTACCAGTTTGGCCTGCACTG
CTGGGATCTGGCGGCTGCCACAGTCATCATCAGAGAAGCAGGCGGCATCGTGATAGACACTTCGGGTGGACCCCT
CGACCTCATGGCTTGCAGAGTGGTTGCGGCCAGCACCCGGGAGATGGCGATGCTCATAGCTCAGGCCTTACAGAC
GATTAACTATGGGCGGGATGATGAGAAGTGACTGCGGCTGAGGCAAAGCTGCTCCCAAGGCCTCCCTGGGCTGCT
GTGGGCTCCTGGGGAGGTGGCCCTCGTGGCCCACGCTCCATGCCAGTGGCTCACGCTCTGCTCCTGGCTACCCCA
GAGGGAGTTGTCACGCTACAGTGAGTGGCTGGCCTTTTAAATCGACGCTCTCTCTCACCAGGATTTGGTGTTTAGC
TGTTTCTCTCTTTAATCTCACGTAGCCTTTTTTCAAGTTAGTACGTGTTCTTCTGTCAGGGCCAAAACCTCAAATCT
CCTGTGAAATACGTATTGATAATCCAATCTTGATTTTTTCCCCCAGAATATAAATCTCAGGTAATAAGGCTTTAG
AACTGCTGATAAAGCGGATCGTTCTCAGGCCCTCCCCCGGAGTACTTCAGAATGCAATAAATCAAAATAATGGC

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FIGURE 5033

MKPSGEDQAALAAGPWEECFQAAVQLALRAGQIIRKALTEEKRVSTKTSAADLVTETDHLVEDLIISELRERFPS
HRFIAEEAAAASGAKCVLTHSPTWIIDPIDGTCNFVHRFPTVAVSIGFAVRQELEFGVIYHCTEERLYTGRRGRGA
FCNGQRLRVSGETDLSKALVLTEIGPKRDPATLKLFLSNMERLLHAKAHGVRVIGSSTLALCHLASGAADAYYQF
GLHCWDLAAATVIREAGGIVIDTSGGPLDLMACRVVAASTREMAMLIAQALQTINYGRDDEK

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FIGURE 5034A

GGCACGATTCTGGGTACAGGTGATGAGGGATTTGAGGAATGGGGTAAAACCTTAAGAAGGTCCAAGAGCGGCAGTA
CAACCCTTTGCCCATTGAATATCAGCTCACCCCTTATGAGATGTTAATGGATGACATTCGCTGCAAAAGATACAC
CTTGCGAAAAGTGATGGTGAATGGTGATATTCCCCCTCGGTTAAAAAAGAGTGCTCATGAAATCATCTCGACTT
CATCAGATCCAGACCTCCTTTAAATCCAGTCTCAGCCAGAAAACCTGAAACCAACTCCACCACGGCCACGGAGCCT
CCATGAAAGAATATTAGAAGAAATTAAAGCAGAAAAGAAAGCTGCGGCCCTGTATCACCAGAGGAGATTAGACGTAG
CAGATTAGATGTGACTACCCCTGAATCTACAAAGAATCTTGTGGAGTCATCTATGGTGAATGGAGGTTTGACATC
ACAAACAAAAGAAAACGGGTTAAGTACCTCACAGCAGGTGCCTGCACAGCGGAAGAAGCTCCTCAGAGCCCCAAC
TCTGGCCGAACCTGGACAGCTCTGAGTCTGAGGAAGAAACGCTGCACAAGTCGACCAGCAGCAGCGTGTCTCC
CTCTTTCCCTGAAGAGCCAGTCTGAGAGGCCGTGTCCACAAGGAAGAAGCCTCCAAAATTCCTGCCCATATCATC
AACACCCAGCCAGAGAGACGGCAGCCACCCAGAGACGACATTCCATTGAAAAGGAAACGCCTACTAACGTGAG
GCAGTTCCCTGCCGCTTCCAGGCAGAGTTCCTCGCTCTCTTGAGGAATTCTGCTACCCAGTGGAATGCCTCGCTCT
TACTGTGGAAGAAGTGATGCATATTCGCCAGGTCTCTGGTGAAGGCAGAGCTGGAAAAATACCAACAGTATAAAGA
CATCTACACCGCCTTGAAAAAAGGAAAGCTCTGCTTTTGTGGCCGAACCAGGAGGTTTTCTCTTCACTTGCTC
TTATACCTGTCAGTTCTGTAAGAGGCCGGTGTGCTCACAGTGTGCAAAAAGATGCGGCTGCCCTCCAAACCATA
CTCCACTCTTCTATCTTTTTCATTGGGACCTTCTGCTCTGCAAGAGGGGAAAGTAGTATGAGGTGCAAAAAACC
CTCCACTGCCCATCATCGGCCACTTCGGAGCATTGCCAGGTTCTCTCTCAAAATCTAAGTCTATGGACAAATCAGA
TGAAGAACTCCAGTTTCCCAAAGAGTTGATGGAGGACTGGAGCACCATGGAGGTGTGTGTGGACTGCAAGAAGTT
CATTTTCGGAAATCATCAGTTCAAGCCGGCGCAGTCTGGTGTGGCCAACAAAAGGGCCCGATTGAAAAGGAAAAC
GCAGTCTTTCTACATGTCTCGCCAGGCCCTCGGAGTACTGCCCTTCAGAGAGGACGATCAGTGAGATCTGAGC
CTCGTGCCCTTCAGCTGCTTTTGTGCTACGAGTCAGCGTCCGTGCGCGAGGACACTGAGCCGGGGCTGGCTCTCCT
TTCTGTGGTTTTATTTAATGGGCTTGAATTTGCATTAGATCAGATTTTTTGCCGCATCACATTGTTCCACAGACTG
AATGCTGTGTTTCGTATCGATTGATGAAACGTGACAGGTCCGCCAATTGCTCGTTTTGCACTGAGAGAGGACAACAG
TTTGAAACTTACTTTTGTGTGTGTGGCTTTGGAAGCCAGTAGCTACTTCCCTTAGTTTCAGTTCTTTACTGTTCC
TCGAATAATCTCCTGACTAAGGCAAAAAAAAAAAGCTTCTCCTACGAGAATCAGTCTAACAGAGATGCCGATGTC
AGCACAGCCCTAAGCAGTAAGTCATATTGGCATTTCACGTGACTGTGTTTCTATCCCGTGTACAGAGAGATCCA
GAGCCCTACACTCCACGACCTGGGGGCTCACAGCACAGAACCTAGAAGCACCTGCTGACACTCTTCAACTGATTT
TTAAATGTTGTTGCTTGGAGATAAAAAATTACATAAGGGACTTTTTGCGCTGCATTCTAGTGCAAAACATCTGAAGA
GCTGTACACCCACAAGGGTGACTATTTCCCTGAGTGGCCGTGTTGTCCCAGTGCCCTGGTTTCAGTGTCTCCTGA
GTGGATGACAGGTCTTCATTCTCTATCTTGAATGTATTATGGTTACTAATAGTTTTATAATGGAGGTCTAAGAAT
TAAAGTTGTGTGGGAGTTTTCAGGACAAAGGAAGGCTAAAAGTTTGTCAAGACGTTGAGCGTATTTTGGTTACCTA
TGAGAAGGGTTGTGACAGTGTACAGTGGCAGCTGTTGGCCACGCTGCAGAAATGAGCTGGAGCTCATGGGTTTTTC
AGCTACATTTTTTACATAACTTTGTAGTACATCCATCTTGAGTAAATTAAGCCACAATTTGGTACCTAGGGTCTCAA
ACTAAAATTTATTTTTATAAATGAATTTTAAAGAAAAAATATCTACTTCTTTTAAAGTTAGAAGAAAAATTAACC
TGCTGACAGGCAACATTTTTGGGGTGCTTCTGCACTAGTTTTCTTGTAAATGATTTGAGTGAGTAGGTTTGGT
TTCTGACGAAAGTAGACTGGAGGGTAGCATTGTATGCCTCAAATGTCTCAGTGTGTTTGGCTCATACGTGGGCTA
TACTGTATTATTTTGGTATGCTTACAAATGACTAACCAATCAAATTGTCATTAATGTTTGGAAAAATCTGTTAATG
CACATGCACAATAATTTCTGAAAGCCATAGGACATGTCTGTAGTCAGCACCACGATAGCACCCTTCATGAAAG
GCATGGCGGCTGCATTTATACCATCAAAATACAGTAACATTTCTATACTAAATTAACAGTAATACCTCAAAA
CTGCTCCGGTAGTAGTTTTTAATGGATTGAAATTTACAGTTTAGTAAAAGGCTTAAATTAATTACTTATACTTATGAA
ATAAATTTTACCAGTTGACTAAAATAATGCATGTTAACAGTTGGTCTGTATTTGCATGTAAAAGTGGGCCACCAG
AGAACCCTTATTGATTACTTAAGTGTTTACATTATTTTAAAGACTCCTGTTTAAAGAGCTTTTCAAGATTGTACTGG
GTGAATCTCATTTATAAACTTCTAAGAGACTATCTGAACTCTATACTCCAGACAGTTAGGTGGGAGTATAAAT
CTACCCCTTTTGTATGACCCAGGCTTGAGTTTTTAAATGACTACCCAGAAGGGCACAAGGGGGAAGGAAATGGT
ATTTGTATATGTATATAAATATGCACCTAGGAGAATGTGCTTTTTTAAATAATGACTACTGTTTTTATTAACA
TAAGAACTACACCCCAAAATAAGACTTTTCATTACATTACAAAGCAAACATCTAGTACATGTCTTTCACTTC
ACTTTATGATAGTGTATTGGATGATTTGGGCATTACGATCACCTCTTACCACAGCACAGAACATACATTCTTCAA
CAGCATTAACGGAGTTTGCCAAGTGCATTAAAGAGGTACGTTGCATATGAAACAATCTGCAGAA
AGTGGGGTAAGAAAGGGCACATGGCACAGTTAAAGTTGTAGAAATCAAATTACTATCATTTTTTGTGCCAAAAC

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FIGURE 5034B

AAAGTCTTACATTTAACCCCCCTTTCTACCACCCCCCTCCACACTTCACGTCAGCTACATAGTTTCCACAGGGTA
ATTCACCTAAGAGCTTGTGGAGCTTGGTTTTAAATCCTTAGCCTGGTCTGACTTTAGGCATAGCTTCCAGTTCTT
CCTTCCGTGTCCTGGTTTCTTGTTCAGTTTTACTTCTAATCCAACAACAAAAGAAATGTCTGGCTGGTCTCAGCT
AGAGTCTGATGTGTCTTAGAGCATGTGTGCGTATCTGAACCATCATCCCTGCTCTCATCTCAGCTCCCTCCAGGC
CTGAGCACCGGTTCCTTTTGTCCCATACGTCATGAAGTCACACTATTGGGAAACCTGTGCTTCCCTCTCCATGGC
TTAACTCCCTGTCAGTGTGCGAGTGTATAAGAATGCTTGTAATACTGTAATATATTTATTAATATTTGAAAGGC
ATTCATTCAGTGGACAGTGGGAATTAACCTCTCCCAAGGCAAGTGAAAATGAATGATTGACGTACGTTGATTTAAC
AATCTTACTAGATTTTAATTCTTAAGGATTTCAAATGAAACCAGAAGGTGGTTATGTAAGAGGCTTAAAATGATC
TTATGTTTAAAGAGATTCTGTTATTAGCACCATGAACTCGTACTATGAAATTTTTAAGCCTTTTATTTTTCTAAC
TATATTACTGTAGGACTGGATATTAGGTGTCATATAGGAAACACAAAAGTTTATTGCTGTTTGCTAAAGCAAAAT
AGCAGAAAATTTTGTATATGCAAACTGTTGAAGGACCATAGAGAAATGTGTACTACTGACGGGGCTTTTACTAG
GCTTCCTGCGTGTGTAAAAGTCGAGGTATTGCTGGCATTACAGGGTGACATGATGGTACTAAATGTTTTCCATTAA
AGTCTTCTATTTTAAAATTTAGAGAAAAATAAAATGGCTTTCCATCAG

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FIGURE 5035

MRDLRNGVKLKKVQERQYNPLPIEYQLTPYEMLMDDIRCKRYTLRKVMVNGDIPRLKKSAAHEIILDFIRSRPPL
NPVSARKLKPTPPRPRSLHERILEEIKAEKLRPVSPEEIRRSRLAMRPLSMSYSFDLSDVTTPESTKNLVESM
VNGGLTSQTKENGLSTSQQVPAQRKKLLRAPTLAELDSSESEEEETLHKSTSSSSVSPSFPEEPVLEAVSTRKKPP
KFLPISSTPQPERRQPPQRRHSIEKETPTNVRQFLPPSRQSSRSLEEF'CYPVECLALTVEEVMHIRQVLVKAELE
KYQQYKDIYTALKKGKLCFCCRTRRFSFFTWSYTCQFCKRPVCSQCCKKMRLPSKPYSTLPIFS LGPSALQRGES
SMRSEKPSTAHHRPLRSIARFSSKSKSMDKSDEELQFPKELMEDWSTMEVCVDCKKFISEIISRRSLVLANKR
ARLKRKTQSFYMSSPGPSEYCPSERTISEI

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FIGURE 5036

TTCITTTCTTGCCGTGCCGATAGCGCTCACGCAAGCATGGTTAACGTCCCTAAAACCCACCAGACTTTCTGTAAGA
AGTGTGGCAAGCACCAACCCACAAAGTGACACAGTACAAGAAGGGCAAGGATTCTCTGTATGCCCAGGGAAAGT
GGCGTTATAACAGGAAGCAGAGTGGCTATGGTGGGCAGACTAAGCCGATTTTCCAGAAAAAGGCTAAACTACAA
AGAATACTGTGCTAAGGCTTGAGTGC GTTGAGCCCAACTGCAGATCCAAGAGAATGCTGGCTATTAAAAGATGCA
AGCATTTTGAAGTGGGAGGAGATAAGAAGAGAAAGGGCCAAGTGATCCCGTTCTAAGTGT CATCTTTTATTATGA
AGACAATAAAA

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FIGURE 5037

GGCACGAGGCAGACCATGAGGTTTAACTGAGTGAACACCGCTGTTCCGGGGCTCTGCCTCTCGCTGAACGCTCCT
GCTGGGCTGGGGCCTCCCGAGTAGCTGGAAGTACAGATAATCACAGCTGGCTTATCAATATTGCTGTTTGATGCG
ATCCTGACCAGTGCAACCACGGGATGCCTCCTGCTCGGTGCGCTTGGAGAGGCCTTGCTGGTTTTCTCAGAGCGG
AAGAGCTCCTGAACAAGACGGTCAAGAGAAAGACTCACAGGCTGCTGCGGGAGAACAGCTTGACACCTGTGTAC
GAGCCCTGGTCTCATAGCTCCCTGTTGGATGTGTCAGAAAGAGGAATGCAAGGACAGTGAGGCCAGGTGGGCAG
TGCCATCACCTCACCCAAGTGAATGTGGTGGTGGCTGATGAGGCCGAGGCCCTGGTGCTTCAAGGAGCACCTT
TCTGGGGTCTGCAGGTCAGTGCAGAGGAGCGGTCTGTTACATCTTCCATTGGAGAACCTCTCTCAACCGTGC
TGTAGCTGGTTCTGCAGAAACAGGAAGTACAGGATTTTATGGGCTGGCTCTGCTCGCCTCGACTGAGCTTCACAC
CTCTGGATGCCACATGCTCTCTCCCAAACACTGCTTTCAGTGCAAGGTAGTGGGCCTAAGGGGTTTTGGTTGTCT
TTTTTTTTTTTCATTTTTAAAATTTTAAATTTTTATTTATTATTATTTTTTAGAGACAAGGCCTCGCTCTATCGC
CTAGGCTGAAGCACAGTGGTGGCATCACAGCTCGCTGCAGCCTTGACCTCCTAGGATCAAGCCATCCTCCTGCCCT
CAGCATCCACAGTAGCTGATGTGCACCACCAGACCCGCTCTCATTTTTTCTATTTTTATTATTTTAGAGATGGGGA
TCTCACTGTGTTGGCCAGGCTGGTCTCAAACCTCTGGGCTCAAGCAATCCTCCACCTTGGCCTCAAAGTATTGA
GATTACAGGCATGAGCCACTGCACCCGGCCTTTCTCATTTTTATTTTTAAATTGACAGACGTAACAGTGCGCATT
TATCACGCACAACACAATGCTTTGGGAATGGTTAAATCTAGCTCACAAATGCATTACCTCACACGGTTGTCAATT
TTGTGGTGAGGCTTGGTTGTATGTTTTGTTTCATTATGTTTTTACATCCTTGGAGTCTCCTCTGGGTCCGTCCT
TTCTTTGCTGTCATGCTGGCTTGCCTAAGGCCACCGCCACCTGCGTACGAGCATTTTAACTCTAGAGTGAGTG
ACAGCCTTTTTATGGTTGGTGTACTATTTATTTCCCTGCCTCTAAACTTCTCGTGGTCCTTATAAACTTGTGAGG
ATGTGTGTTGCGTTGAATTCTGCATGTCTTTTTTTGCCCACCCTCAGGTTAAGCTGGTACTAACTTATCCCCAG
AGGAAACAGGGTTTATGAGCACTGACAGATGTCTTCCCTGGGCAAAAAAAAAAAAAAAAAATAGTATATGTATACAC
ACACACATACACATTTATATTTATATTTCTTAAAGCTTTTAAATCCCTTTTATTCCCTGATATCTCAGAGATTTCA
AATCATTGAACACTGAAGTATATTTTTCAGGCCAGATGAAAAATTGTATTAAACCCTATTCTGCTCAGGCGCA
GTGGCTCACGCCTATAATCCCAGCACTTTGGGAGGCCGAAGTAAGCAGATCACCTGAGGTCGGGAGTTCAAGACA
AACCTGGCCAACATGGTGAAACCCTGTCTCTACTAAACTACAAAAAATTAGCCTGATGTGGTGTGTGTGCCT
GTAGTCCCAGCTACTTAGGAGGCTGAGGTAGGAGAATTGCTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCCAAA
ATTACGCCACTGCCTCCAGCCTGGGCAACAGAGCGAGACAGTCTCAAAAACAACAACAACAACAAAAACCCTAT
TCCTTGCCCTTTGTAGGAGTCAAAATAAATGAACCTCTTTTTTCTTTTTTTTATTATTATACTTTAAGTTCTGGGG
TACACGTGCAGAATGTGCAGGTTTGTACATAGGTATGCACGTGCCATGGTGGTTTGCTGCACCCATCAACCTGT
CACCTACATTAGGTATTTCCCCTAATGTTATCCCTCCCCTAGCCCTCCATCCCCTGACAGGCCCTGGTGTGTGAT
GTTCCCCTCCCCTATGTCCATGTGTTCTCATTTGCTCCAAATAAATGAATTTACACAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAA

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FIGURE 5038

MPPARCAWRGLAGFLRAEELLNKTVKRKTHRLRENSLYTCVRAPGLIAPCWMCOKEECKDSEARWAVPSPSPK

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FIGURE 5039

GAATCCCCCCCCCCCCAGTGCTCCGCGCGCTCTTGACGTCCGGAGCCCCTGGAGTAGGCGCTTCCGGCCATT
CATACTGCAGTCGGTCAGTGTTTCGGTTGAAGGATTCTGTGTGCTGTCGGACCCAGAGGGTGACGGCGCCGCTAGG
ATGAAGCTCGTGAGATTTTTGATGAAATTGAGTCATGAAACTGTAACCATTGAATTGAAGAACGGAACACAGGTC
CATGGAACAATCACAGGTGTGGATGTCAGCATGAATACACATCTTAAAGCTGTGAAAATGACCCTGAAGAACAGA
GAACCTGTACAGCTGGAAACGCTGAGTATTCGAGGAAATAACATTCCGGTATTTTATTCTACCAGACAGTTTACCT
CTGGATACACTACTTGTGGATGTTGAACCTAAGGTGAAATCTAAGAAAAGGGAAGCTGTTGCAGGAAGAGGCAGA
GGAAGAGGAAGAGGAAGAGGACGTGGCCGTGGCAGAGGAAGAGGGGGTCTAGGCGATAATGTCTCTCAAGATT
CAAAGTCATATGAGATTTGGGATATTTTTGTACAGGTTGTGTTTGTATGTTCAGTTTTTAATAAACATAAATG
TGGGACAGAGCTGTCTATTTAGTATATCAAAGTTTGTAGTTCCTCCACATTCACGAAATTACCACAGTGAGA
GCTAAGCATTTCTACTGGGCAGTTTCATTTTTAGTTGATCAGGTTTTAAGTTTTTGAATAAAATTTTTCTTTTT
CTTTTTATGATGAATAAGGTTAAAATAAAAGCCTTAGACAAATTAAATTTGGCAGAGTTTAATTGAGCAAAGGAC
AATTCACAAATCAGGTAGCCCCTGAACCATAATAGGCTCAGAGGCTTCAGCCCAGCTGCATAGTTGAAGATTTAT
GGACAGAAGGAAAGTGATGTATGGAAAATGGAAGTGAGATACAGCAACAGCCGGATTAGTTACAGTTCAGCGTTT
GCCTTATTTGAATATGGTTTGAACAGTTCGCTGTCCTTGGTTGGCTGAAACTTAGTGATTGCCACAAGAGTAGGG
TACCGTCTGTTTACACGTCCAGTTAGGCTACAGTTCATGTACTGAGAAACCTTTAAGCTGAACTTGAGATATGT
AAAGAGACTTTAGGCTAACTTAACAATATATATAGGAATATATCCCTTCTACTTCACATGCACTGAATATGCAT
TTTATTGCTTTACTCTTCATTCTGTGGCACCTACCCACAGGGGAAGTAAGAAGTTTGTGTTTGGTATTTTCGGAAAC
TAAAGTCCTTATGGGATGGGGTCTAGAATTGATTCTCCTTTCTGAGTTTTACTCCACGGAGTCTTAGGTACCTG
GTAAAAAGTTGTCTTCTAAATTAAGGGTCATTGCTTTGTTGTCTAGCTGCTAATGTCTTACTTTTGTCTTTTG
CTTTTTAATCAGTTCTTAATAGGATATAGTTTTATGTTTTCCAAGTTATAACTTGGAGTTAATGGTCACTAGATT
ATCAGTTATGAGCAGTGTTAAATCTCCTATTAATGTGTAATGTACCTGTCAGTGCCTCCTTTATTAAGGGGTTT
TTTGAGAATAAAAGAGAAAAGACCTACTTTATTTGACAGCAAAAAAAAAAAGGAATTC

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FIGURE 5040A

ATGGGATGGCTGTGGATCTTTGGGGCAGCCCTGGGGCAGTGTCTGGGCTACAGTTACAGCAGCAAAGGGTGCCA
TTTCTTCAGCCTCCCGGTCAAAGTCAACTGCAAGCGAGTTATGTGGAGTTTAGACCCAGCCAGGGTTGTAGCCCT
GGATACTATCGGGATCATAAAGGCTTGTATACCGGACGGTGTGTTCCCTGCAATTGCAACGGACATTCAAATCAA
TGCCAGGATGGCTCAGGCATATGTGTTAACTGTCAGCACAAACCCGCGGAGAGCACTGTGAACGCTGCCAGGAG
GGCTACTATGGCAACGCCGTCCACGGATCCTGCAGGGCCTGCCCATGTCTCACACTAACAGCTTTGCCACTGGC
TGTGTGGTGAATGGGGGAGACGTGCGGTGCTCCTGCAAAGCTGGGTACACAGGAACACAGTGTGAAAGGTGTGCA
CCGGGATATTTCCGGGAATCCCCAGAAATTTCGGAGGTAGCTGCCAACCATGCAGTTGTAACAGCAATGGCCAGCTG
GGCAGCTGTCTATCCCCCTGACTGGAGACTGCATAAACCAGAACCACAAAGATAGCAGCCCTGCAGAAAGATGTGAT
GATTGCGACAGCTGTGTGATGACCCTCCTGAACGACCTGGCCACCATGGGCGAGCAGCTCCGCCTGGTCAAGTCT
CAGCTGCAGGGCCTGAGTGCCAGCGCAGGGCTTCTGGAGCAGATGAGGCACATGGAGACCCAGGCCAAGGACCTG
AGGAATCAGTTGCTCAACTACCGTTCTGCCATTTCAAATCATGGATCAAAAATAGAAGGCCTGGAAAGAGAACTG
ACTGATTTGAATCAAGAATTTGAGACTTTGCAAGAAAAGGCTCAAGTAAATTCCAGAAAAGCACAAACATTAAAC
ACAATGTTAATCGGGCAACACAAAAGCGCAAAGAAGCTGGATGTGAAGATTAAAAATGTCATCCGGAATGTGCAC
ATTCTTTTAAAGCAGATCTCTGGGACAGATGGAGAGGGAAACAACGTGCCTTCAGGTGACTTTTCCAGAGAGTGG
GCTGAAGCCCAGCGCATGATGAGGGAAGTGCAGAACAGGAAGCTTTGGAAAGCACCTCAGAGAAGCAGAAGCTGAT
AAAAGGGAGTCGAGCTCTTGCTGAACCGGATAAGGACCTGGCAGAAAACCCACCAGGGGGAGAACAATGGGCTT
GCTAACAGTATCCGGGATTCTTTAAATGAATACGAAGCCAAACTCAGTGACCTTCGTGCTCGGCTGCAGGAGGCA
GCTGCCCAAGCCAAGCAGGCAAAATGGCTTGAACCAAGAAAACGAGAGAGCTTTGGGAGCCATTCAGAGACAAGTG
AAAGAAATAAATTCCTGCAGAGTGATTTACCAAGTATCTAACCCTGCAGACTCATCTTGTGTGCAACCAAC
ATTGCGCTGCAGCTGATGGAGAAAAGCCAGAAGGAATATGAAAAATTAGCTGCCAGTTTAAATGAAGCAAGACAA
GAACTAAGTGACAAAAGTAAGAGAACTTTCCAGATCTGCTGGCAAACATCCCTTGTGGAGGAGGCAGAAAAGCAC
GCGCGGTCTTTACAAGAGCTGGCAAAGCAGCTGGAAGAGATCAAGAGAAAACGCCAGCGGGGATGAGCTGGTGCGC
TGTGCTGTGGATGCCGCCACCGCCTACGAGAACATCCTCAATGCCATCAAAGCGGCCGAGGACGCAGCCAACAGG
GCTGCCAGTGATCTGAATCTGCCCTCCAGACAGTGATAAAGGAAGATCTGCCAAGAAAAGCTAAAACCTGAGT
TCCAACAGTGATAAACTGTTAAATGAAGCCAAGATGACACAAAAGAAGCTAAAGCAAGAAGTCAGTCCAGCTCTC
AACAACTACAGCAAACCTGAATATTGTGACAGTTTCAGAAAAGAAGTGATAGACACCAATCTCACAACCTCTCCGA
GATGGTCTTCATGGGATACAGAGAGGTGATATTGATGCTATGATCAGTAGTGCAAAGAGCATGGTCAGAAAGGCC
AACGACATCACAGATGAGGTTCTGGATGGGCTCAACCCCATCCAGACAGATGTGGAAAGAATTAAGGACACCTAT
GGGAGGACACAGAACGAAGACTTCAAAAAGGCTCTGACTGATGCAGATAACTCGGTGAATAAGTTAACCAACAAA
CTACCTGATCTTTGGCGCAAGATTGAAAGTATCAACCAACAGCTGTTGCCCTTGGGAAACATCTCTGACAACATG
GACAGAATACGAGAATAATTACGACAGGCCAGAGATGCTGCCAGTAAGGTTGCTGTCCCCATGAGGTTCAATGGT
AAATCTGGAGTCGAAGTCCGACTGCCAAATGACCTGGAAGATTGAAAGGATATACATCTCTGTCTTGTCTCTC
CAAAGGCCCAACTCAAGAGAAAATGGGGTACTGAGAATATGTTTGTGATGTACCTTGGAAATAAAGATGCCTCC
CGGGACTACATCGGCATGGCAGTTGTGGATGGCCAGCTCACCTGTGTCTACAACCTGGGGGACCGTGAGGCTGAA
CTCCAAGTGGACCAGATCTTGACCAAGAGTGAGACTAAGGAGGCAGTTATGGATCGGGTGAAATTTTCAGAGAATT
TATCAGTTTGCAAGGCTTAATTACACCAAAGGAGCCACATCCAGTAAACCAGAAAACACCCGGAGTCTATGACATG
GATGGTAGAAATAGCAATACACTCCTTAATTTGGATCCTGAAAATGTTGTATTTTATGTTGGAGGTTACCCACCT
GATTTTAAACTTCCCAGTCGACTAAGTTTCCCTCCATACAAAGGTTGTATTGAATTAGATGACCTCAATGAAAAT
GTTCTGAGCTTGTACAACCTTCAAAAAACATTCAATCTCAACACAACCTGAAGTGGAGCCTTGTAGAAGGAGGAAG
GAAGAGTCAGACAAAAATATTTTGAAGGTACGGGCTATGCTCGAGTTCCAACCTCAACCACATGCTCCCATCCCA
ACCTTTGGACAGACAATTACAGACCACCGTGGATAGAGGCTTGCTGTTCTTTGCAGAAAACGGGGATCGCTTCATA
TCTCTAAATATAGAAGATGGCAAGCTCATGGTGAGATACAACTGAATTTCAGAGCTACCAAAAGAGAGAGGAGTT
GGAGACGCCATAAAACAACGGCAGAGACCATTGATTTCAGATCAAAATTGGAAAACCTCAAAAGCGTATGTGGATA
AATGTGGACGTTCAAAACACTATAATTGATGGTGAAGTATTTGATTTTCAGCACATATTATCTGGGAGGAATTCCA
ATTGCAATCAGGGAAAGATTTAACATTTCTACGCCGTCTTCCGAGGCTGCATGAAAAATTTGAAGAAAACAGT
GGTGTCTGTTAGATTGAATGATACTGTGGGAGTAACCAAAAAGTGCTCGGAAGACTGGAAGCTTGTGCGATCTGCC
TCATTCTCCAGAGGAGGACAATTGAGTTTCACTGATTTGGGCTTACCACCTACTGACCACCTCCAGGCCTCATT
GGATTTACAGACCTTTCAACCCAGTGGCATATTATTAGATCATCAGACATGGACAAGGAACCTGCAGGTCACTCTG

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FIGURE 5040B

GAAGATGGTTACATTGAATTGAGCACCAGCGATAGCGGCGGCCCAATTTTTAAATCTCCACAGACGTATATGGAT
GGTTTACTGCATTATGTATCTGTAATAAGCGACAACCTCTGGACTACGGCTTCTCATCGATGACCAGCTTCTGAGA
AATAGCAAAAGGCTAAAAACACATTTCAAGTTCCCGGCAGTCTCTGCGTCTGGGCGGGAGCAATTTTGAGGGTTGT
ATTAGCAATGTTTTTGTCCAGAGGTTATCACTGAGTCCTGAAGTCCTAGATTTGACCAGTAACCTCTCTCAAGAGA
GATGTGTCCCTGGGAGGCTGCAGTTTAAACAAACCACCTTTTCTAATGTTGCTTAAAGGTTCTACCAGGTTTAAAC
AAGACCAAGACTTTTTCGTATCAACCAGCTGTTGCAGGACACACCAGTGGCCTCCCCAAGGAGCGTGAAGGTGTGG
CAAGATGCTTGCTCACCCTTCCAAGACCCAGGCCAATCATGGAGCCCTCCAGTTTGGGGACATTCCCACCAGC
CACTTGCTATTCAAGCTTCCTCAGGAGCTGCTGAAACCCAGGTACAGTTTGCTGTGGACATGCAGACAACATCC
TCCAGAGGACTGGTGTTCACACGGGCACCTAAGAACTCCTTTATGGCTCTTTATCTTTCAAAGGACGCTGTGGTC
TTTGCAGTGGGGACAGATGGGAAAAAATTGAGGATCAAAGCAAGGAGAAATGCAATGATGGGAAATGGCACACG
GTGGTGTGTGGCCATGATGGGAAAAGGGGCGCTTGTTGTGGATGGACTGAGGGCCCGGGAGGGAAGTTTGCCT
GGAACTCCACCATCAGCATCAGAGCGCCAGTTTACCTGGGATCACCTCCATCAGGGAAACCAAAGAGCCTCCCC
ACAAACAGCTTTGTGGGATGCCTGAAGAACTTTCAGCTGGATTCAAACCCCTTGATACCCCTTCTTCAAGCTTC
GGGGTGTCTTCTGCTTGGGTGGTCCTTTGGAGAAAGGCATTTATTTCTCTGAAGAAGGAGGTCATGTCGTCTTG
GCTCACTCTGTATTGTTGGGGCCAGAATTTAAGCTTGTTTTAGCATCCGCCCAAGAAGTCTCACTGGGATCCTA
ATACACATCGGAAGTCAGCCCGGGAAGCACTTATGTGTTTACCTGGAGGCAGGAAAGGTCACGGCCTCTATGGAC
AGTGGGGCAGGTGGGACCTCAACGTCGGTCACACCAAGCAGTCTCTGTGTGATGGACAGTGGCACTCGGTGGCA
GTCACCATAAAACAACACATCCTGCACCTGGAAGTGGACACAGACAGTAGCTACACAGCTGGACAGATCCCCTTC
CCACCTGCCAGCACTCAAGAGCCACTACACCTGGAGGTGCTCCAGCCAATTTGACGACACTGAGGATCCCTGTG
TGGAATCATTCTTTGGCTGTCTGAGGAATATTCAATGTCAATCACATCCCTGTCCCTGTCACTGAAGCCTTGGA
GTCCAGGGGCCTGTGAGTCTGAATGGTTGTCTGACCAGTAACCCAAGCCTATTTACAGCAAGGAAATTCACCT
TCAAAGCACTGATTACCCAATGCACCTCCCTCCCCAGCTCGAGATCATTCTTCAATTAGGACACAAACCAGACA
GGTTTAATAGCGAATCTAATTTTGAATTCTGACCATGGATACCCATCACTTTGGCATTGAGTGTACATGTGTAT
TTTATATAAAAAATCCCATTCTTGAAGATAAAAAAATTGTTATTCAAATTGTTATGCACAGAATGTTTTTGGTAA
TATTAATTTCCACTAAAAAATTAAATGTCTTTT

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FIGURE 5041

MGWLWIFGAALGQCLGYSSQQQRVPFLQPPGQSQLQASYVEFRPSQGCSPGYRDRHKGLYTGRVCPCNCNGHSNQ
CQDGSIGICVNCQHNTAGEHCERCQEGYGNVAVHGSCRACPCPHTNSFATGCVVNGGDVRCSCKAGYTGTQCERCA
PGYFGNPQKFGGSCQPCSCNSNGQLGSCHPLTGDCINQEPKSSPAEECDSDSCVMTLLNDLATMGEQLRLVKS
QLQGLSASAGLLEQMRHMETQAKDLRNQLLNYSASINHGSKIEGLERELTDLNQEFETLQEKAVNSRKAQTLN
NNVNRATQSAKELDVKIKNVIRNVHILLKQISGTDGEGNNVPSGDFSREWAEAQMMRELNRNFGKHLREAEAD
KRESQLLLNRIRTWQKTHQGENNGLANSIRDSLNEYEAKLSDLRARLQEAQAQKQANGLNQENERALGAIQRQV
KEINSLQSDFTKYLTADSSLLQTNIALQLMEKSQKEYEKLAAASLNEARQELSDKVRELSRSAGKTSIVEEAEKH
ARSLQELAKQLEEIKRNASGDELVRCAVDAATAYENILNAIKAAEDAANRAASASESALQTVIKEDLPRKAKTSL
SNSDKLLNEAKMTQKKLKQEVSPALNNLQQTLNIVTVQKEVIDTNLTTLRDGLHGIQRGDIAMISSAKSMVRKA
NDITDEVLDGLNP IQTDVERIKDTYGRTONEDFKKALTDADNSVNKLTKLPDLWRKIESINQQLPLGNISDNM
DRIRELIQQARDAASKVAVPMRFNGKSGVEVRLPNDLEDLKGYSLSLFLQRPNSRENGGTENMFVMYLGNKDAS
RDYIGMAVVDGQLTCVYNLGDREAEQVDQILTKSETKEAVMDRVKFQRIYQFARLNYTKGATSSKPETPGVYDM
DGRNSNTLLNLDPENNVFYVGGYPPDFKLP SRLSFPPYKGCIELDDLNNVLSLYNFKKTFNLNTEVEPCRRRK
EESDKNYFEGTGYARVPTQPHAPIPTFGQTIQTTVDRGLLFFAENGDRFISLNIEDGKLMVRYKLNSELPKERGV
GDAINNGRDHSIQIKIGKLQKRMWINVDVQNTIIDGEVDFDSTYYLGGIPAIARERFNISTPAFRGCMKNLKKTS
GVVRLNDTVGVTKKCEDWKLVRASFSRGGQLSFTDLGLPPTDHLQASFGFQTFQPSGILLDHQWTRNLQVTL
EDGYIELSTSDSGGPIFKSPQTYMDGLLHYVSVISDNSGLRLLIDDQLLRNSKRLKHISRRQSLRLGGSNFEGC
ISNVFVQRLSLSPEVLDLTSNSLKRVDVSLGGCSLNKPPFLMLLKGSTFRNKTCTFRINQLLQDTPVASPRSVKVV
QDACSPLPKTQANHGALQFGDIPTSHLLFKLPQELLKPRSQFAVDMQTTSSRGLVFHTGTKNFSMALYLSKGRLV
FALGTDGKKLRIKSKEKCNDGKWHVTVFGHDGEKGRLVVDGLRAREGSLPGNSTISIRAPVYLGSPPSGKPKSLP
TNSFVGCLKNFQLDSKPLYTPSSSFGVSSCLGGPLEKGIYFSEEGGHVVLAHSVLLGPEFKLVFSIRPRSLTGIL
IHIGSQPGKHLVCVYLEAGKVTASMDSGAGGTSTSVTPKQSLCDGQWHSVAVTIKQHILHLELDTDSSYTAGQIPF
PPASTQEPLHLGGAPANLTTLRIPVWKSFFGCLRNHVNHI PVVTEALEVQGPVSLNGCPDQ

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FIGURE 5042

CCTTTCTGCCCCTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGA
GTCTCCTAAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCT
GAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAG
GGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGT
GGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTGGA
GGCAGAACTCTGGCCCCTATGGCGGTGGAGGCCAGTACTTTGCAAAACCACGAAACCAAGGTGGCTATGGCGGT
TCCAGCAGCAGCAGTAGCTGTGTCACTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGAGGAGAGCC
AGAGAAGTGACAGGGAAGCCACAGGTTACAACAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGGGCCTAGC
TGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTGTTTGTGACTA
ATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGCGTTTTAATGTAGAT

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FIGURE 5043

CCTTTCTGCCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCCTGCCGTCATGCTCTAAGTCAGA
GTCTCCTAAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCT
GAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAG
GGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGA
TGAAGAGTTGTGGAACCAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAAGTGTGAA
AAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTGAACAGTATGGTGG
AAGCAATTTTGGAGGTGGTGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCAT
GAAGGGAGGAAATTTTGGAGGCAGAACTCTGGCCCCCTATGGCGGTGGAGGCCAGTACTTTGCAAAACCACGAAA
CCAAGGTGGCTATGGCGGTTCCAGCAGCAGCAGTAGCTGTGTTCAGTGGCAGAAGATTTTAATTAGGAAACAAAGC
TTAGCAGGAGAGGAGAGCCAGAGAAGTGACAGGGAAGCCACAGGTTACAACAGATTTGTGAAGTTCAGCCAAGCAC
AGTGGTGGCAGGGCCTAGCTGCTAC

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FIGURE 5044

MSKSKSPKEPEQQRKLFIGGLSFETTDESLRSHCEQWGMLTDCVVMRDPNFKHSRGC GFV TYATVEEVDAAMNAR
PHKVDGRVVEPKRAVSREDSQRP GAHLTVKKIFVGGIKEDTEEHHLRDYFEQLEAILQVVEATVILAITTISLQI
LDP

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FIGURE 5045

CCTTTCTGCCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCGTCCGTCATGTCTAAGTCAGA
GTCTCCTAAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCT
GAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAG
GGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGA
TGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAAGTGTGAA
AAAGATATTGTGGTGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGG
GAGGAAATTTTGGAGGCAGAACTCTGGCCCCCT

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FIGURE 5046

CCTTTCTGCCCCTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGA
GTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCT
GAGGAGCCATTTTGTAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAG
GGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGA
TGAAGAGTTGTGGAACCAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAAGTGTGAA
AAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGA
AATTGAAGTGATTGAAATCATGACTGACCGAGGCGAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACTTTGACGA
CCATGACTCCGTGGATAAGATTGTCAATTCAGAAAATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGC
CCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTGCAAGTGGTTCTGGAACTTTGGTGGTGG
TCGTGGAGGTGGTTTTGGTGGGAATGACAACCTTCGGTCATGGAGGAACTTCAGTGGTCGTGGTGGCTTTGGTGG
CAGCCGTGCTGGTGGTAGATATGGTGGCAGTGGGGATGGCTCTAATGGATTTGGTAATGATGGAAGCAATTTTGG
AGGTGGTGGAAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAA
TTTTGGAGGCAGAACTCTGGCCCTATGGCGGTGGAGGCCAGTACTTTGCAAACACGAAACCAAGGTGGCTA
TGGCGGTTCCAGCAGCAGCAGTAGCTGTGTGTCAGTGGCAGAAGATTTAATTAGGAAACAAAGCTTAGCAGGAGAG
GAGAGCCAGAGAAGTGACAGGGAAGCCACAGGTTACAACAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGG
GCCTAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTGTTT
GTGACTAATTGTATAACAGGTTATTTTAGTCTCTGTCTGTGGAAAGTGTAAGCATTCCAACAAAGCGTTTTAA
TGTAGATTTTTTTTTTTTTGACCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGACGCTGAATAAATGT
CTTTTTTTTTTAAATGTGCTGTGTAAAGTTAGTCTACTCTGAAGCCATCTTGGTAAATTTCCCCAACAGTGTGAA
GTTAGAATTCTTCAGGGTGATGCCAGGTTCTATTTGGAATTTATATACAACCTGCTTGGGTGGAGAAGCCATTG
TCTTCGGAAACCTTGGTGTAGTTGAACTGATAGTTACTGTTGTGACCTGAAGTTCACCATTAAAAGGGATTACCC
AAACAAAGTCATGGAATGGTTATAAAAGTGATTGTTGGCACATCCTATGCAATATATCTAAATTGAATAATGGTA
CCAGATAAAATTATAGATGGGAATGAAGCTTGTGTATCATCCATTATCATGTGTAATCAATAAACAAATTTAATTC
TCTTGAA

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FIGURE 5047

MSKSESPKEPEQLRKLFIGGLSFETTDESLRSHFEQWGLTDCVVMRDPNPKRSRGFGFVTYATVEEVDAAMNAR
PHKVDGRVVEPKRAVSREDSQRPD AHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF
VTFDDHDSVDKIVIQKYHTVNGHNCEVRKALSKQEMASASSSQGRSGSGNFGGGRGGGFGGNDNFGRGGNFSGR
GGFGGSRGGGGYGGSGDGYNGFGNDGSNFGGGGSYNDFGNYYN

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FIGURE 5048

AAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCA
TTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACT
GTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGG
TGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAG
AAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAG
AACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTG
GCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACCATGACTCCGTGGATAAGATTGTCATTGAGAAATACC
ATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCC
AAAGAGGTCGAAGTGGTTCTGGAAACTTTGGTGGTGGTCGTGGAGGTGGTTTCGGTGGGAATGACAACTTCGGTC
ATGGAGGAAACTTCAGTGGTCGTGGTGGCTTTGGTGGCAGCTCTAATGGATTTGGTAATGATGGAAGCAATTTTG
GAGGTGGTGGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAA
ATTTTGGAGGCAGAACTCTGGCCCCCTATGGCGGTGGAGGCCAGTACTTTGCAAAACCACGAAACCAAGGTGGC

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FIGURE 5049

ACCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGA
GCTTTGAAACAACCTGATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGA
GAGATCCAAACACCAAGCGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTA
TGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAGAGAGCTGTCTCCAGAGAAGATTCTCAA
GACCAGGTGCCCCTTAACCTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAA
GAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGG
GCTTTGCCTTTGTAACTTTGACGACCATGACTCCGTGGTGGCTTTGGTGGCAGCCGTGCTGGTGGTAGATATGG
TGGCAGTGGGGATGGCTCTAATGGATTTGGTAATGATGGAAGCAATTTTGAGGTGGTGGAAAGCTACAATGATT
TGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGG

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FIGURE 5050

TTTTCTTAGACATTAACTGCAGACGGCTGGCAGGATAGAAGCAGCGGCTCACTTGGACTTTTTTACCAGGGAAAT
CAGAGACAATGATGGGGCTCTTCCCCAGAACTACAGGGGCTCTGGCCATCTTCGTGGTGGTCATATTGGTTCATG
GAGAATTGCGAATAGAGACTAAAGGTCAATATGATGAAGAAGAGATGACTATGCAACAAGCTAAAAGAAGGCAAA
AACGTGAATGGGTGAAATTTGCCAAACCTGCAGAGAAGGAGAAGATAACTCAAAAAGAAACCAATTGCCAAGA
TTACTTCAGATTACCAAGCAACCCAGAAAATCACCTACCGAATCTCTGGAGTGGGAATCGATCAGCCGCTTTTG
GAATCTTTGTTGTTGACAAAAACACTGGAGATATTAACATAACAGCTATAGTCGACCGGGAGGAAACTCCAAGCT
TCCTGATCACATGTCGGGCTCTAAATGCCCAAGGACTAGATGTAGAGAAACCACTTATACTAACGGTTAAAAATT
TGGATATTAATGATAATCCTCCAGTATTTTCAACAATAATTTTCATGGGTGAAATTGAAGAAAATAGTGCCTCAA
ACTCACTGGTGTGATACTAAATGCCACAGATGCAGATGAACCAACCACTTGAATTCTAAAATTGCCTTCAAAA
TTGTCTCTCAGGAACCAGCAGGCACACCCATGTTCTCTTAAGCAGAAACACTGGGGAAGTCCGTACTTTGACCA
ATTCTCTTGACCGAGAGCAAGCTAGCAGCTATCGTCTGGTTGTGAGTGGTGCAGACAAAGATGGAGAAGGACTAT
CAACTCAATGTGAATGTAATATTAAGTGAAAGATGTCAACGATAACTTCCAATGTTTAGAGACTCTCAGTATT
CAGCACGTATTGAAGAAAATATTTTAAAGTTCTGAATTACTTCGATTTCAAGTAACAGATTGGATGAAGAGTACA
CAGATAATTGGCTTGAGTATATTTCTTTACCTCTGGGAATGAAGGAAATTGGTTTGAAATACAACTGATCCTA
GAACTAATGAAGGCATCCTGAAAAGTGGTGAAGGCTCTAGATTATGAACAACACTACAAAGCGTGAACTTAGTATTG
CTGTCAAAAACAAAGCTGAATTTACCAATCAGTTATCTCTCGATACCGAGTTTCACTCAACCCAGTCACAATTC
AGGTAATAAATGTAAGAGAAGGAATTGCATTCCGTCTGCTTCCAAGACATTTACTGTGCAAAAAGGCATAAGTA
GCAAAAATTTGGTGGATTATATCCTGGGAACATATCAAGCCATCGATGAGGACACTAACAAAGCTGCCTCAAATG
TCAAAATATGTCATGGGACGTAACGATGGTGGATACCTAATGATTGATTCAAAAACCTGCTGAAATCAAAATTTGTCA
AAAATATGAACCGAGATTCTACTTTCATAGTTAAACAAAACAATCACAGCTGAGGTTCTGGCCATAGATGAATACA
CGGGTAAAACCTTCTACAGGCACGGTATATGTTAGAGTACCCGATTTCAATGACAATTGTCCAACAGCTGTCTCG
AAAAGATGCAGTTTGCAGTTCTTCACCTTCCGTGGTTGTCTCCGCTAGAACACTGAATAATAGATACACTGGCC
CCTATACATTTGCACTGGAAGATCAACCTGTAAAGTTGCCTGCCGTATGGAGTATCACAACCCCTCAATGCTACCT
CGGCCCTCTCAGAGCCCAGGAACAGATACCTCCTGGAGTATACCACATCTCCCTGGTACTTACAGACAGTCAGA
ACAATCGGTGTGAGATGCCACGCAGCTTGACACTGGAAGTCTGTGAGTGTGACAACAGGGGCATCTGTGGAACCT
CTTACCCAACCACAAGCCCTGGGACCAGGTATGGCAGGCCGCACTCAGGGAGGCTGGGGCCTGCCGCCATCGGCC
TGCTGCTCCTTGGTCTCCTGCTGCTGCTGTTGGCCCCCTTCTGCTGTTGACCTGTGACTGTGGGGCAGGTTCTA
CTGGGGGAGTGACAGGTGGTTTTATCCAGTTCTTGATGGCTCAGAAGGAACAATTCATCAGTGGGGGAATTGAAG
GAGCCCATCCTGAAGACAAGGAAATCACAATATTTGTGTGCCTCCTGTAACAGCCAATGGAGCCGATTTTCATGG
AAAGTTCTGAAGTTTGTACAAATACGTATGCCAGAGGCACAGCGGTGGAAGGCACCTTCAGGAATGGAAATGACCA
CTAAGCTTGAGCAGCCACTGAATCTGGAGGTGCTGCAGGCTTTGCAACAGGGACAGTGTGAGGAGCTGCTTCAG
GATTTCGGAGCAGCCACTGGAGTTGGCATCTGTTCTCAGGGCAGTCTGGAACCATGAGAACAAGGCATTCCACTG
GAGGAACCAATAAGGACTACGCTGATGGGGCGATAAGCATGAATTTTCTGGACTCCTACTTTTCTCAGAAAGCAT
TTGCCTGTGCGGAGGAAGACGATGGCCAGGAAGCAAATGACTGCTTGTGATCTATGATAATGAAGGCGCAGATG
CCACTGGTTCTCCTGTGGGCTCCGTGGGTTGTTGCAGTTTTATTGCTGATGACCTGGATGACAGCTTCTTGGACT
CACTTGGACCCAAATTTAAAAAACTTGCAAGATAAGCCTTGGTGTGATGGTGAAGGCAAAGAAGTTCAGCCAC
CCTCTAAAGACAGCGGTTATGGGATTGAATCCTGTGGCCATCCCATAGAAGTCCAGCAGACAGGATTTGTAAAGT
GCCAGACTTTGTGAGGAAGTCAAGGAGCTTCTGCTTTGTCCGCTCTGGGTCTGTCCAGCCAGCTGTTTCCATCC
CTGACCTCTGCAGCATGGTAACATTTAGTAACGGAGACTTACTCGGCTTCTGGTTCCCTCGTGCAACCTTCCA
CTGCAGGCTTTGATCCACTTCTCACACAAAATGTGATAGTGACAGAAAGGGTGATCTGTCCCATTTCAGTGTTTC
CTGGCAACCTAGCTGGCCCAACGCAGCTACGAGGGTCACATACTATGCTCTGTACAGAGGATCCTTGCTCCCGTC
TAATATGACAGGAATGAGCTGGAATACCACACTGACCAATCTGGATCTTTGGACTAAAGTATTCAAAATAGCAT
AGCAAAGCTCACTGTATTGGGCTAATAATTTGGCACTTATTAGCTTCTCTCATAAACTGATCAGGATTATAAATT
AAATGTTTGGGTTTATACCCCAAAGCAATATGTTGTCACTCCTAATTCTCAAGTACTATTCAAATTTGTAGTAA
TCTTAAAGTTTTTCAAAACCTAAAATCATATTCGC

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FIGURE 5051

MMGLFPRTTGALAIFVVVILVHGELRIETKGQYDEEEMTMQQAKRRQKREWVKFAKPCREGEDNSKRNP
IAKITS
DYQATQKITYRISGVGIDQPPFGIFVVDKNTGDINITAIVDREETPSFLITCRALNAQGLDVEKPLILTVKILDI
NDNPPVFSQQIFMGEIEENSASNSLVMILNATDADEPNHLNSKIAFKIVSQEPAGTPMFLLSRNTGEVRTLTNSL
DREQASSYRLVVSGADKDGEGGLSTQCECNIKVKDVNDNFPMPFRDSQYSARIEENILSSELLRFQVTDLDEEYTDN
WLAVYFFTSGNEGNWFEIQTDPRTNEGILKVVKALDYEQLQSVKLSIAVKNKAEFHQSVISRYRVQSTPVTIQVI
NVREGIAFRPASKTFTVQKGISSKKLVDYILGTYQAIDEDTNKAASNVKYVMGRNDGGYLMIDSKTAEIKFVKNM
NRDSTFIVNKTITAEVLAIDEYTGKTSTGTIVYVRVPDFNDNCPTAVLEKDAVCSSSPSVVVSARTLNNRYTG
PYT
FALEDQPVKLPVWSITTLNATSALLRAQEIQIPGVYHISLVLTDSQNNRCMPRSLTLEVCQCDNRGICGTSYP
TTSPGTRYGRPHSGRLGPAAIGLLLLLGLLLLLLAPLLLLLTCDGAGSTGGVTGGFIPVPDGSEGTIHQWGIEGAH
PEDKEITNICVPPVTANGADFMESEVCTNTYARGTAVEGTSGMEMTTKLGAATESGGAAGFATGTVSGAASGFG
AATGVGICSSGQSGTMTRHSTGGTNKDYADGAISMNFLDSYFSQKAFACAEEDDGQEANDCLLIYDNEGADATG
SPVGSVGCCSFIADDLDDSLGPKFKKLAELSLGVDGEGKEVQPPSKDSGYGIESCGHPIEVQQTGFVKCQT
LSGSQGASALSASGSVQPAVSIPDPLQHGNYLVTETYSASGSLVQPSTAGFDPLLTQNVIVTERVICPISSVPGN
LAGPTQLRGSHTMLCTEDPCSRLI

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FIGURE 5052

CCCACGCGTCCGGATGGTCCTGGTCACAAAATATTAAAGAGACCGACCGCTAAGGGAACAGGAAAAACGTCCGAG
ACAGCCGTTGCAATTACGAATGGACCAGACTTGGTAGCACGGGGCATTGATTGCTGGTGCCCAACCGGACCCTCC
TCCCCTCTTCCCATCCCTTCCCCACCCAAAGCAGGCTCCCGCTGCGGCCGGGACCTCGCATCCCTGCAACGTGG
CCGGGGCTGCATTTTTTCATGAGCCTAGGGTGAACAGGTGCGAAGTGCCTGGGAGCATCCGGCCAGCGGCCGAGC
GCGGGGAACATGGAGAGCGAGCGCGACATGTACCGCCAGTTCCAGGACTGGTGCTCAGGACTTACGGGGACTCA
GGCAAGACCAAGACGGTGACCCGTAAAAAATACGAACGGATCGTCTAGCTCCTCAATGGCTCCGAGTCGAGCTCC
ACGGACAACGCCAAATTTAAATTCTGGGTCAAATCGAAGGGCTTCCAGCTGGGCCAGCCGGACGAGGTCCGCGGG
GGAGGCGGGCGGCCAAGCAAGTGCTCTAGTGCCGTGCAAGACCACGGATGGCGTAGGGGTAGATGAGAAGCTAT
CTTTACGACGGGTAGCTGTGGTTGAAGATTTCTTTGACATTATTTATTCTGATGATGTGGAAACGGGGCCAAATG
GAGAACAAATTCGGAACACGCTGGACAAAAGAGAACTTACAAAGCAATTTTCAGAGAGCTATGCCTTCCTACCAA
GAGAAGCGGTGACACGATTTCTAATGAGCTGCTCAGAGTGCCAGAAAAGAATGCATTTAAACCCAGATGGAACAG
ATCATAAAGATAATGGAACCTCCCACTTTGGTGACCAGCATGATTGACTACAACATGCCAATTACCATGGCCT
ACATGAAACACATGAAGCTGCAGCTGCTAAACTCACAGCAAGATGAGGATGAAAGTTCAATAGAAAAGTGATGAAT
TTGACATGAGTGATTCAACACGGATGTCAGCTGTGAACCTCTGATCTTAGCTCCAATCTTGAGAAAAGAAATGCAAA
GTCCCCAGAATCTTCATGGCCAGCAAGATGATGATTCTGCTGCAGAGAGCTTTAATGGCAATGAGACTCTGGGGC
ACAGTTCAATTGCTTCAGGGGGAAACACACAGCAGGGAGATGGGAGACTCCAACAGTGATGGCAAAACTGGGCTGG
AGCAAGATGAACAGCCACTGAACCTGAGTGACAGTCCCTCTCTGCGCAGCTAACTTCGGAATACAGAATAGATG
ATCACAACAGTAATGGGAAAAACAAGTATAAGAATCTTCTAATTTCTGACCTCAAGATGGAACGAGAGGCGAGAG
AAAATGGAAGCAAGTCTCCTGCACATAGTTACTCCAGCTATGACTCTGGCAAAAATGAGAGTGATAGACCGAGGAG
CTGAGGACCTCTCACTAAACAGGGGAGATGAGGACGAAGATGACCACGAGGACCATGACGATTCGGAGAAAGTTA
ATGAGACAGACGGCGTTGAAGCCGAGCGGCTGAAAGCTTTTAATATGTTTGTGAGGCTGTTTGTAGATGAAAAC
TGGACCGAATGGTCCCAATCTCTAAGCAGCCCAAAGAAAAGATCCAGGCTATCATTGACTCATGCAGGCGACAAT
TCCCTGAGTATCAAGAGCGTGCCAGAAAACGTATACGTACTTACCTCAAGTCCTGCAGGCGGATGAAAAGAAGTG
GTTTTGAGATGTCTCGACCTATTCTTCCCACCTTACTTCAGCAGTTGCAGAGAGTATCTTGGCTTCAGCTTG
AGAGTGAGAGTAGAAATGCCGCCAAGAGGATGCGTCTGGAGAGACAGCAGGATGAGTCTGCTCCAGCTGACAAAC
AGTGTAACACAGAGGCGACCCAGGCCACTTACTCAACATCAGCTGTTCCAGGCTCACAGGACGTGCTGTACATCA
ATGGAATGGGACCTATAGTTACCATAGTTACAGAGGGCTAGGAGGGGGTCTGCTAAATCTGAATGATGCTTCCA
GCAGTGGACCCACTGATCTCAGCATGAAGAGACAATTGGCGACTAGCTCAGGATCCTCCAGCAGCTCAAACCTCCA
GACCCAGCTGAGTCCAACCTGAAATCAATGCCGTGAGACAGCTTGTTGCAGGATATCGAGAATCAGCTGCATTTT
TATTGCGATCTGCAGATGAACTGGAAAATCTCATTTTACAACAGAACTGAGACAGACGACCACCATATTTCACTGA
GGTCTAAATTTGCAGTTCCACTAATGACATTTTGATTTCCCAACAGAGATACTTCTGGTCTTACTGCACAGTCTT
TTAAGAGAAATACTTCCATTATGCCACATTGTCCTTGATCCGTAAGTGATGTGTTAAGGTGCTTCAAAGGAACTC
TGACCTCTGAAGTACTTGAGCTACTTTAGTATGTCCAGCCTATTGCTTTTTGTTTTAGTGTGTCACCATAAATAT
CAGGGGCATAAAAGGCTATCTATTCTTAATTCAAGGATAAAACAGAAGAAGCTTGTGGTATAAAACAATAGTTCA
AGATCCAGCTGAAATATTAGTGGAATTTGCTACTGACTCATTGGACTGAAAGCTGAAGTACCTGGCAAAAAAAA

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FIGURE 5053

MHVETGPNGEQIRKHAGQKRTYKAISESYAFLPREAVTRFLMSCSECQKRMHLNPDGTDHKDNGKPPTLVTS MID
YNMPITMAYMKHMKLQLLNSQQDEDESSIESDEFDMSDSTRMSAVNSDLSSNLEERMQSPQNLHGQQDDDSAAES
FNGNETLGHSSIASGGTHSREMGDNSDGTGLEQDEQPLNLSDSPLSAQLTSEYRIDDHNSNGKNKYKNLLISD
LKMEREARENGSKSPAHSYSSYDSGKNESVDRGAEDLSLNRGDEDEDDHEDHDDSEKVNETDGVEAERLKAFNMF
VRLFVDENLDRMVPISKQPKEKIQAIIDSCRRQFPEYQERARKRIRTYLKSCRRMKRSGFEMS RPIPSHLTSAVA
ESILASACESES RNAAKRMRLERQQDESAPADKQCKPEATQATYSTSAVPGSQDVLYINGNGTYSYHSYRGLGGG
LLNLNDASSSGPTDLSMKRQLATSSGSSSSSNSRPQLSPTEINAVRQLVAGYRESAAFLRSADLENLILQQN

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FIGURE 5054

ATCTTGCTGGTTTTGCGGCCGGTCTTGATGAAGCGGCGGCCGTGGTGAGAGCGTGGGGAAGGGTGGGGTGAGGGG
GCGAGGCCCGCAGCTAGGGCGGCGAACTCTCCTCCCCTCGGCCCCACCGCGTGGGACGGCGTGAACGTGGTGTCTG
GAGGGATGTCAGCCTTCTCTGAGGCGGCGCTGGAGAAGAAGCTGTCTGGAGTTGAGCAACTCGCAGCAGAGCGTGC
AGACCTTGTCCCTGTGGCTCATTACACCACGTAAACACTCGCGTCCCATCGTCACCGTGTGGGAGCGGGAGCTGC
GGAAAGCCAAACCAACAGGAAGCTTACTTTTTCTCTACCTAGCCAATGATGTCATACAGAACAGCAAGAGGAAGG
GGCCAGAGTTTACAAAAGATTTTGCACCAGTTATAGTGGAGGCTTTTAAGCATGTTTCAAGTGAAACTGATGAAA
GTTGTAAGAAGCACCTTGAAGAGTGTATCTATTTGGGAAGAAAGGTCTGTTTATGAAAATGATGTATTAGAAC
AACTTAAACAAGCTCTGTATGGTGATAAGAAGCCTAGGAAGCGAACTTATGAACAGATAAAGGTGGATGAAAATG
AAAAGTGTCTCTCTGGGATCTCCAAGTGAACCACCACAGACTCTAGATCTCGTTAGAGCATTACAAGATCTGG
AAAATGCAGCCTCAGGTGATGCAGCAGTTTATCAGAGGATAGCTTCTTTACCTGTTGAAGTCCAAGAAGTATCTC
TATTAGATAAAAATAACAGATAAAGAATCTGGAGAAAGGCTTTCCAAAATGGTAGAGGATGCGTGTATGTTGCTGG
CAGATTACAATGGCAGATTGGCGGCAGAAATAGATGATAGAAAGCAACTCACTCGAATGTTAGCAGATTTTCTTC
GTTGTCAAAAGGAAGCCCTTGCAGAGAAAGAGCATAAATTGGAAGAGTACAAGCGCAAGCTAGCCAGAGTTTCCC
TGGTGCAGCAAAAGAACTCAGGTCCCGGATCCAGAGCCTGCCAGACTTATCTCGATTGCCCAATGTCAGTGGCAGCC
ACATGCACCTGCCCTTTGCGGGAGACATCTACAGTGAAGATTGATGGACCAGCCTCTTTCCAGGTCCCAGGACTT
TGCAAGAGATGGAGACAGGTTAGGTGGATAGTCCTGTAGTGTTATTTTTGTATATTGTTGAGAAAGAAACACTAA
CAAAAGGAACAACGAGTAATTTATAAAATTGTTTAAATGTTGGTTTGTACTATTTTATTGGTAAATTAACAT
GACTTAATTTGAACAAAAGTGATGATTTGTGTGTATTAATAAGCTCACAAATAGTGATTATTTTCAAAAGATCTTT
TTGTAAATTTTTTTTTTTGATCCAAGGCCTTGTGAGAAATCTCTTGTTTGTATTCTTCAGGTATTTTCAATTGTT
TTTCTTTATTTTCTTCAGCATTTAATCAGTGTATACTATGTAATTCCTGAAGGGGAAGAACTAATTAGGAGTTGA
TTGAGACTTTTATTATGGTATAGTTAGGACTTGATTGTAGAAGGGACTAAATGTTCCAACATAATCTTTACCCTTC
TCCCCAAACAAAATATCAATTCGTGTCTCTACATGCCTTTGATTCTTAGAGGTCGGTAATTTAACATAAAACA
GGGATGTCAGTTTGAGGGGCAGATGAAAGTCTAGAGAAGTGTTCCTTAATAGCATTGTAAAAGTCCATTCCAAC
TGCCAGTGTAGATTTTAAAAGTGTTAAATAGTGAAGTCCCTTGATTAAAGTGTGTAATTATTTGAGTAGATTAA
TAATGAAAATACTTTGGAAATAATATACATTTTGACATTCTACCAAGAGGACAACCTTTGGTTCTGGAAGTGGTTT
CTATTTGTCAAATCAGTTTCCTTTTAAACATAATTAATCCCTTTAACAAAAAGCCGTCTATGGGATTAAAAGACAC
GTGAAATGATACTTTTATTATTCCTTGCTCATATAACTTTAAAAATAATACTTTTAGCTCTAATAGCTCAAGAA
CACAAATATTCGTTAATGTTTCAGTAAAGTAGCCTGAGACATTTTCAATGTTTCCTTAAGGTTTTTGAATGACTGTA
TATTTGGCAGTTAAGCAGTGCCACACTACAGGGTAGATATGGTAAATTTTATATTTGTATATTTACAGTTACAAA
ACAAATGTACTTTTACCTTTTATTTCTGACCCTGTGTGTTAGAGCAGTTGCATGCTCTCCTGCTGTAAAAACAC
ATTGTTAAGCTGTGGATTTGTACTCAATAATGACTTAGGATAAACATTTATTTTCATTTCATTGCTTTACATACTA
GACATTTTCTTCTCTTTGTAAGTAGATTCAAATTAGATAGTCAATAAAACATCTTGAATATCCACAAAGCC

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FIGURE 5055

ACCGCGTGTTCGCGCCTGGTAGAGATTTCTCGAAGACACCAGTGGGCCCCGTTCCGAGCCCTCTGGACCGCCCGTG
TGGAACCAAACCTGCGCGCGTGGCCGGGCGTGGGACAACGAGGCCGCGGAGACGAAGGCGCAATGGCGAGGAAG
TTATCTGTAATCCTTGATCCTGACCTTTGCCCTCTCTGTACAAATCCCCTTCATGAACTAAAAGCAGCTGCTTTC
CCCCAGACCACTGAGAAAATTAGTCCGAATTGGGAATCTGGCATTAAATGTTGACTTGGCAATTTCCACACGGCAA
TATCATCTACAACAGCTTTTCTACCGCTATGGAGAAAATAATTCTTTGTGAGTTGAAGGGTTCAGAAAATTACTT
CAAAATATAGGCATAGATAAGATTAAAAGAATCCATATACACCATGACCACGACCATCACTCAGACCACGAGCAT
CACTCAGACCATGAGCGTCACTCAGACCATGAGCATCACTCAGAGCACGAGCATCACTCTGACCATGATCATCAC
TCTCACCATAATCATGCTGCTTCTGGTAAAAATAAGCGAAAAGCTCTTTGCCAGACCATGACTCAGATAGTTCA
GGTAAAGATCCTAGAAACAGCCAGGGGAAAGGAGCTCACCAGCCAGAACATGCCAGTGGTAGAAGGAATGTCAAG
GACAGTGTAGTGCTAGTGAAGTGACCTCAACTGTGTACAACACTGTCTCTGAAGGAACTCACTTTCTAGAGACA
ATAGAGACTCCAAGACCTGGAAAACCTCTTCCCCAAAGATGTAAGCAGCTCCACTCCACCCAGTGTCAATCAAG
AGCCGGGTGAGCCGGCTGGCTGGTAGGAAAACAAATGAATCTGTGAGTGAGCCCCGAAAAGGCTTTATGTATTCC
AGAAACACAAATGAAAATCCTCAGGAGTGTTTCAATGCATCAAAGCTACTGACATCTCATGGCATGGGCATCCAG
GTTCCGCTGAATGCAACAGAGTTCAACTATCTCTGTCCAGCCATCATCAACCAAATTGATGCTAGATCTTGTCTG
ATTCTATACAAGTGAAGAAGGCTGAAATCCCTCCAAAGACCTATTCTATTACAAATAGCCTGGGTTGGTGGTTTT
ATAGCCATTTCCATCATCAGTTTCTGTCTCTGCTGGGGGTTATCTTAGTGCCTCTCATGAATCGGGTGTTTTTC
AAATTTCTCCTGAGTTTCTTGTGGCACTGGCCGTTGGGACTTTGAGTGGTGATGCTTTTTTACACCTTCTTCCA
CATTCTCATGCAAGTCACCACCATAGTCATAGCCATGAAGAACCAGCAATGGAAATGAAAAGAGGACCACTTTTTC
AGTCATCTGTCTTCTCAAAACATAGAAGAAAGTGCCATTTTTGATTCCACGTGGAAGGGTCTAACAGCTCTAGGA
GGCCTGTATTTTCATGTTTTCTTGTGTAACATGTCCTCACATTGATCAACAATTTAAAGATAAGAAGAAAAAGAAT
CAGAAGAAACCTGAAAATGATGATGATGTGGAGATTAAGAAGCAGTTGTCCAAGTATGAATCTCAACTTTCAACA
AATGAGGAGAAAGTAGATACAGATGATCGAAGTGAAGGCTATTTACGAGCAGACTCACAAGAGCCCTCCCACTTT
GATTCTCAGCAGCCTGCAGTCTTGGAGAAGAAGAGGTCATGATAGCTCATGCTCATCCACAGGAAGTCTACAAT
GAATATGTACCCAGAGGGTGCAAGAATAAATGCCATTACATTTCCACGATACACTCGGCCAGTCAGACGATCTC
ATTCACCACCATCATGACTACCATCATATTCTCCATCATCACCACCACCAAAACCACCATCTCAGTCACAGC
CAGCGCTACTCTCGGGAGGAGCTGAAAGATGCCGGCGTCGCCACTCTGGCCTGGATGGTGATAATGGGTGATGGC
CTGCACAATTTACGCGATGGCCTAGCAATTGGTGCTGCTTTTACTGAAGGCTTATCAAGTGGTTAAGTACTTCT
GTTGCTGTGTTCTGTCTATGAGTTGCCTCATGAATTAGGTGACTTTGCTGTTCTACTAAAGGCTGGCATGACCGTT
AAGCAGGCTGTCTTTTATAATGCATTGTGAGCCATGCTGGCGTATCTTGAATGGCAACAGGAATTTTCATTGGT
CATTATGCTGAAAATGTTTCTATGTGGATATTTGCACTTACTGCTGGCTTATTCATGTATGTTGCTCTGGTTGAT
ATGGTACCTGAAATGCTGCACAATGATGCTAGTGACCATGGATGTAGCCGCTGGGGGTATTTCTTTTTTACAGAAT
GCTGGGATGCTTTTGGGTTTGGAAATTATGTTACTTATTTCCATATTTGAACATAAAAATCGTGTTTCGTATAAAT
TTCTAGTTAAGGTTTAAATGCTAGAGTAGCTTAAAAGTTGTCTATAGTTTTCAGTAGGTCATAGGGAGATGAGTTT
GTATGCTGTACTATGCAGCGTTTAAAGTTAGTGGGTTTTGTGATTTTTGTATTGAATATTGCTGTCTGTTACAAA
GTCAGTTAAAGGTACGTTTTAATATTTAAGTTATTTCTATCTTGGAGATAAAAATCTGTATGTGCAATTCACCGGTA
TTACCAGTTTATTATGTAAACAAGAGATTGGCATGACATGTTCTGTATGTTTCAGGGAAAAATGCTTTTAAATGC
TTTTTCAAGAACTAACACAGTTATTCCTATACTGGATTTTAGGTCTCTGAAGAACTGCTGGTG

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FIGURE 5056

AGTTGGCGACATGGTGGCACCCGTGCTGGAGACTTCTCACGTGTTTTGCTGCCCAAACCGGGTGCGGGGAGTCCT
GAACTGGAGCTCTGGGCCCAGAGGACTTCTGGCCTTTGGGCACGTCTCTCCGTGGTGCTCTATGACCCCTGAA
AAGGGTTGTTGTTACCAACTTGAATGGTCACACCGCCCCGAGTCAATTGCATACAGTGGATTTGTAAACAGGATGG
CTCCCCCTTCTACTGAATTAGTTTTCTGGAGGATCTGATAATCAAGTGATTCACTGGGAAATAGAGGATAATCAGCT
TTTAAAGCAGTGCATCTTCAAGGCCATGAAGGACCTGTTTATGCGGTGCATGCTGTTTACCAGAGGAGGACATC
AGATCCTGCATTATGTACACTGATCGTTTCTGCAGCTGCAGATTCTGCTGTTTCGACTCTGGTCTAAAAAGGGTCC
AGAAGTAATGTGCCTTCAGACTTTAAACTTTGGAAATGGATTTGCTTTGGCTCTCTGCTTATCTTTTTTGCCAAA
TACTGATGTACCAATATTAGCATGTGGCAATGATGATTGCAGAATTCACATATTTGCTCAACAAAATGATCAGTT
TCAGAAAGTGCTTTCTCTCTGTGGACATGAGGATTGGATTAGAGGAGTGGAATGGGCAGCCTTTGGTAGAGATCT
TTTCCTAGCAAGCTGTTTACAAGATTGCCTGATAAGAATATGGAAGCTGTATATAAAGTCAACATCTTTAGAAAC
TCAGGATGACGATAACATAAGACTGAAAGAAAATACTTTTACCATAGAAAATGAAAGTGTTAAAAATAGCATTTCG
TGTTACTCTGGAGACAGTGCTAGCCGGTCATGAAAACGGGTAAATGCAGTTCAGTGGCAACCTGTGTTTTACAA
AGATGGTGTCTACAGCAGCCAGTGAGATTATTATCTGCTTCCATGGATAAAACCATGATTCTCTGGGCTCCAGA
TGAAGAGTCAGGAGTTTGGCTAGAACAGGTTTCGAGTAGGTGAAGTAGGTGGGAATACTTTGGGATTTTATGATTG
CCAGTTCAATGAAGATGGCTCCATGATCATTGCTCATGCTTTCACGGAGCGTTGCACCTTTGGAAACAGAATAC
AGTTAACCCAAGAGAGTGGACTCCAGAGATTGTCATTTCAGGACACTTTGATGGTGTCCAAGACCTAGTCTGGGA
TCCAGAAGGAGAATTTATTATCACTGTTGGTACTGATCAGACAACCTAGACTTTTTGCTCCATGGAAGAGAAAAGA
CCAATCACAGGTGACTTGGCATGAAATTGCAAGGCCTCAGATACATGGGTATGACCTGAAATGTTTGGCAATGAT
TAATCGGTTTTAGTTTTGATCTGGAGCAGATGAAAAAGTTCCTCGGGTTTTTTCTGCACCTCGGAATTTTGTGGA
AAATTTTTGTGCCATTACAGGACAATCACTGAATCATGTGCTCTGTAATCAAGATAGTGATCTTCCAGAAGGAGC
CACTGTCCCTGCATTGGGATTATCAAATAAAGCTGTCTTTCAGGGAGATATAGCTTCTCAGCCTTCTGATGAAGA
GGAGCTGTAACTAGTACTGGTTTTGAGTATCAGCAGGTGGCCTTTCAGCCCTCCATACTTACTGAGCCTCCAC
TGAGGATCATCTTCTGCAGAATACTTTGTGGCCTGAAGTTCAAAAACCTATATGGGCACGGTTATGAAATATTTTG
TGTTACTTTGTAACAGTTCAAAGACTCTGCTTGCCTCAGCTTGTAAAGGCAGCTAAGAAAGAGCATGCAGCTATCAT
TCTTTGGAACACTACATCTTGGAACAGGTGCAGAATTTAGTTTTCCACAGTTTGACAGTCACGCAGATGGCCTT
CTCACCTAATGAGAAGTTCTTACTAGCTGTTTCCAGAGATCGAACCTGGTCATTGTGGAAGGAGCAGGATACAAT
CTCACCTGAGTTTCGAGCCAGTTTTTAGTCTTTTGCCTTACCACAAAATTACTTCTGTGCACAGTAGAATTAT
TTGGTCTTGTGATTGGAGTCCCTGACAGCAAGTATTCTTCACTGGGAGTCGAGACAAAAGGTGGTTGTCTGGGG
TGAGTGGGACTCCACTGATGACTGTATTGAGCACAAACATTGGCCCCCTGCTCCTCAGTCCTGGACGTGGGTGGGGC
TGTGACAGCTGTGACGCTCTGCCCAGTGCTCCACCCTTCTCAACGATACGTGGTTGCAGTAGGATTGGAGTGTGG
AAAGATTTGCTTATATACCTGGAAAAAGACTGATCAAGTTCCAGAAATAAATGACTGGACCCACTGTGTAGAAAC
AAGTCAAAGCCAAAGTCATACACTGGCTATCAGAAAATTATGCTGGAAGAATTGCAGTGGAAAAACTGAACAGAA
GGAAGCAGAAGGTGCTGAGTGGTTACACTTTGCAAGCTGTGGTGAAGATCACACTGTGAAGATACACAGAGTCAA
TAAATGTGCACTGTAAATGG

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FIGURE 5057

MVAPVLETSHVFCCPNRVRGVLNWSSGPRGLLAFGTSCSVVLYDPLKRVVVTNLNGHTARVNCIQWICKQDGSPS
TELVS GGSDNQVIHWEIEDNQLLKAVHLQGHEGPVYAVHAVYQRRTS DPALCTLIVSAAADSAVRLWSKKGPEVM
CLQTLNFGNGFALALCLSFLPNTDVPILACGNDDCRIHIFAQQNDQFQKVLSLCGHEDWIRGVEWAAFG RDLFLA
SCSQDCLIRIWKLYIKSTSLETQDDDNIRLKENTFTIENESVKIAFAVTLETVLAGHENWVNAVHWQPFVFKDGV
LQQPVRLLSASMDKTMILWAPDEESGVWLEQVRVGEVGGNTLGFYDCQFNEDGSMIIAHAFHGALHLWKQNTVNP
REWTPEIVISGHFDGVQDLVWDPEGEFIITVGTDQTTRLFAPWKRKDQSQVTWHEIARPQIHGYDLKCLAMINRF
QFVSGADEKVLRVFSAPRNFVENFCAITGQSLNHVLCNQSDSLPEGATVPALGLSNKAVFQGDIASQPSDEEELL
TSTGFEYQQVAFQPSILTEPPTEDHLLQNTLWPEVQKLYGHGYEIFCVTCNSSKTL LASACKAAKKEHAAIILWN
TTSWKQVQNLVFHSLTVTQMAFSPNEKFLLAVSRDRTWSLWKKQDTISPEFEPVFSLFAFTNKITSVHSRIIWSC
DWSPDSKYFFTGSRDKKV VVWGECDSTDDCIEHNIGPCSSVLDVGGAVTAVSVCPVLHPSQRYVVAVGLECGKIC
LYTWKKTDQVPEINDWTHCVETSQSQSHTLAIRKLCWKNC SGKTEQKEAEGAEWLHFASCGEDHTVKIHRVNKCA
L

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FIGURE 5058

CTCTCCTCCCGCCGCCCAAGATGCCGAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCCCCTGCTGTCTG
TGAAGAAGCAGGAGGCTAAGAAAGTGGTGAATCCCCTGCTTGAGAAAAGGCCTAAGAATTTTGGCATTGGACAGG
ACATCCAGCCCAAAAGAGACCTCACCCGCTTTGTGAAATGGCCCCGCTATATCAGGTTGCAGCGGCAGAGAGCCA
TCCTCTATAAGCGGCTGAAAGTGCCTCCTGCGATTAACCAAGTTCACCCAGGCCCTGGACCGCCAAACAGCTACTC
AGCTGCTTAAGCTGGCCCAAAATACAGACCAGAGACAAAGCAAGAGAAGAAGCAGAGACTGCTGGCCCGGGAGG
AGAAGAAAGCTGCTGGCAAAGGGGACGTCCCCACGAAAAGACCACCTGTCCTTCGAGCAGGAGTTAATACCGTCA
CCACCTTGGTGGAGAACAAGAAAGCTCAGCTGGTGGTAATTGCACATGACGTGGATCCCATCGAGCTGGTTGTCT
TCTTGGCTGCCCTGTGTCGTAAAATGGGGGTCCCTTACTGCATTATCAAGGGGAAGGCAAGACTGGGACGTCTAG
TCCACAGGAAGACCTGCACCACTGTGCGCTTCACACAGGTGAACTCGGAAGACAAAGGCACCTTTGGCTAAGCTGA
TGGAAAGCTATCAGGACCAATTACAATGACAGATACGATGAGATCCGCCGTCACTGGGGCGGCAACGTCCTGGGTC
CTAAGTCTGTGGCTCGTATCGCCAAGCTCGAAAAGGCAAAAGGCTAAAGACCTTGCCACTAAACTGGGTTAAATGT
ACACTGTTGAGTTTTCTGTACATAAAAATAATTAAAATAATACAAATTTTCTTC

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FIGURE 5059

MPKGKKAKGKKVAPAPAVVKKQEAKKVVNPLEKRPKNFGIGQDIQPKRDLTRFVKWPRYIRLQRQRAILYKRLK
VPPAINQFTQALDRQTATQLLKLAKHYRPETKQEKQRLAREEKAAGKGDVPTKRPPVLRAGVNTVTTLVENK
KAQLVVIAHDVDPIELVVFLAALCRKMGPYCI IKGKARLGRLVHRKTCTTVAFTQVNSEDKGTLAKLMEAIRTN
YNDRYDEIRRHWGGNVLGPKSVARIAKLEKAKAKDLATKLG

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FIGURE 5060

GGCACGAGGGCGGGGCGCATCTCCCGCTAGGAGTTCCCTAGTAAAGTGGCGGGAGCCGCAGCTATGGAGCCGCAGG
AGGAGAGAGAAACGCAGGTTGCTGCGTGTTAAAAAAATATTTGGAGATCATCCTATTCCACAGTATGAGGTGA
ACCCACGGACCACAGAGATTTTACATCACCTTTCAGAACGCAACAGGGTCCGGGACAGGGATGTCTACCTGGTAA
TAGAGGACTTGAAGCAGAAAGCAAGTGAATACGAGTCAGAAGCCAAGTATCTTCAAGACCTTCTCATGGAGAGTG
TGAATTTTTCCCCCGCCAATCTCTCTAGCACTGGTTCCAGGTATCTGAATGCTTTGGTTGACAGTGCGGTGGCCC
TTGAAACAAAGGATACCTCGCTAGCTAGTTTTATCCCTGCAGTGAATGATTTGACCTCTGATCTCTTTCGTACCA
AATCCAAAAGTGAAGAAATCAAGATTGAACTGGAAAACTTGAAAAAAATTTAACTGCAACTTTAGTATTAGAAA
AATGTCTACAAGAGGATGTCAAGAAAGCAGAGTTGCATCTGTCTACAGAAAGGGCCAAAGTTGATAATCGTCGTC
AGAACATGGACTTTCTAAAAGCAAAGTCAGAGGAATTCAGATTTGGAATCAAGGCTGCAGAGGAGCAACTTTTCAG
CCAGAGGCATGGATGCTTCTCTGTCTCATCAGTCCTTAGTAGCACTATCAGAGAACTGGCAAGATTAAAGCAAC
AGACTATACCTTTGAAGAAAAAATTGGAGTCCTATTTAGACTTAATGCCGAATCCGTCTCTTGCTCAAGTGAAAA
TTGAAGAAGCAAAGCGAGAACTAGATAGCATTGAAGCTGAACTTACAAGAAGAGTAGACATGATGGAAGCTGAGAC
AAAAGCCAAATAAACATCCTTTTCCCTAACAAAGTAAATTGAATAGGACTTTACAGAGTTCTTTTTCCCTCTTGGC
ATTTCCCTAATAACAAAACCTTTCTGTGTTCTTAGATTACAGAATATCATAATTGATAGAATATGGTTTCTTACTGT
GTGTTGCATTTTTGTGCCCAAATACATAGTTTTTCATATTAAAAAGCCTTTTCTTTAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 5061

MEPQEERETQVAAWLKKIFGDHPIQYEVNPRTEILHHLSENRVRDRDVYLVIEDLKQKASEYESEAKYLQDL
LMESVNFSPANLSSTGSRYLNALVDSAVALETKDTSLASFIPAVNDLTSDLFRTKSKSEEIKIELEKLEKNLTAT
LVLEKCLQEDVKKAELHLSTERAKVDNRRQNMDFLKAKSEEFRFGIKAAEEQLSARGMDASLSHQSLVASEKLA
RLKQQTIP LKKKLESYLDLMPNPSLAQVKIEEAKRELD SIEAELTRRVDMMEL

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FIGURE 5062

GTCCCAGTCAGTCCGGAGGCTGCGGCTGCAGAAGTACCGCCTGCGGAGTAACTGCAAAGATGCTGTCCGTGCGCG
TTGCTGCGGCCGTGGTCCGCGCCCTTCCTCGGCGGGCCGGACTGGTCTCCAGAAATGCTTTGGGTTTCATCTTTCA
TTGCTGCAAGGAACCTTCCATGCCTCTAACACTCATCTTCAAAGACTGGGACTGCTGAGATGTCCTCTATTCTTG
AAGAGCGTATTCTTGGAGCTGATACCTCTGTTGATCTTGAAGAACTGGGCGTGTCTTAAGTATTGGTGATGGTA
TTGCCCGCTACATGGGCTGAGGAATGTTCAAGCAGAAGAAATGGTAGAGTTTTCTTCAGGCTTAAAGGGTATGT
CCTTGAACCTTGAACCTGACAATGTTGGTGTGTCGTGTTTGGAAATGATAAACTAATTAAGGAAGGAGATATAG
TGAAGAGGACAGGAGCCATTGTGGACGTTCCAGTTGGTGAGGAGCTGTTGGGTCGTGTAGTTGATGCCCTTGGA
ATGCTATTGATGGAAGGGTCCAATTGGTTCCAAGACGCGTAGGCGAGTTGGTCTGAAAGCCCCGGTATCATT
CTCGAATTTAGTGCGGGAACCAATGCAGACTGGCATTAAAGGCTGTGGATAGCTTGGTGCCAATTGGTCGTGGTC
AGCGTGAACTGATTATTGGTGACCGACAGACTGGGAAAACCTCAATTGCTATTGACACAATCATTAACCAGAAAC
GTTTCAATGATGGATCTGATGAAAAGAAGAGCTGTACTGTATTTATGTTGCTATTGGTCAAAAGAGATCCACTG
TTGCCAGTTGGTGAAGAGACTTACAGATGCAGATGCCATGAAGTACACCATTGTGGTGTGCGCTACGGCCTCGG
ATGCTGCCCCACTTCAGTACCTGGCTCCTTACTCTGGCTGTTCCATGGGAGAGTATTTTAGAGACAATGGCAAAC
ATGCTTTGATCATCTATGACGACTTATCCAAACAGGCTGTTGCTTACCGTCAGATGTCTCTGTTGCTCCGCCGAC
CCCCTGGTGTGAGGCTATCCTGGTGATGTGTTCTACCTACACTCCCGGTTGCTGGAGAGAGCAGCCAAAATGA
ACGATGCTTTTGGTGGTGGCTCCTTGACTGCTTTGCCAGTCATAGAAACACAGGCTGGTGATGTGTCTGCTTACA
TTCCAACAAATGTCATTTCCATCACTGACGGACAGATCTTCTTGAAACAGAATTGTTCTACAAAGGTATCCGCC
CTGCAATTAACGTTGGTCTGTCTGTATCTCGTGTCGGATCCGCTGCCCAAACCAGGGCTATGAAGCAGGTAGCAG
GTACCATGAAGCTGGAATTGGCTCAGTATCGTGAGGTTGCTGCTTTTGCCAGTTTCGGTTCTGACCTCGATGCTG
CCACTCAACAACCTTTTGAGTCGTGGCGTGCGTCTAACTGAGTTGCTGAAGCAAGGACAGTATTCTCCCATGGCTA
TTGAAGAACAAGTGGCTGTTATCTATGCGGGTGTAAGGGGATATCTTGATAAACTGGAGCCCAGCAAGATTACAA
AGTTTGAGAATGCTTTCTTGTCTCATGTCGTCAGCCAGCACCAAGCCTTGTTGGGCACTATCAGGGCTGATGGAA
AGATCTCAGAACAATCAGATGCAAAGCTGAAAGAGATTGTAACAAATTTCTTGGCTGGATTGAAAGCTTAAACTC
CTGTGGATTACATCAAATACCAGTTCAGTTTTGTCATTGTTCTAGTAAATTAGTTCCATTGTAAAAGGGTTAC
TCTCATACTCCTTATGTACAGAAATCACATGAAAAATAAAGGTTCCATAATGC

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FIGURE 5063

MLSVRVAAAVVRALPRRAGLVSRNALGSSFIAARNFHASNTHLQKTGTAEEMSSILEERILGADTSVDLEETGRVL
SIGDGIARVHGLRNVQAEEMVEFSSGLKGMSLNLEPDNVGVVVFNDKLIKEGDIVKRTGAIVDVPVGEELLGRV
VDALGNAIDGKGPIGSKTRRRVGLKAPGIIPRISVREPMQTGIKAVDSLVPIGRGQRELIIGDRQTGKTSIAIDT
IINQKRFNDGSDEKKKLYCIYVAIGQKRSTVAQLVKRLTDADAMKYTIVVSATASDAAPLQYLAPYSGCSMGEYF
RDNGKHALIIYDDLKQAVAYRQMSLLLRPPGREAYPGDVLYLHSRLLERAAMNDAFGGGSALTALPVIETQAG
DVSAYIPTNVISITDGQIFLETIFYKGIRPAINVGLSVSRVGSAAQTRAMKQVAGTMKLELAQYREVAFAQFG
SDLDAATQQLLSRGVRLTELLKQGQYSPMAIEEQVAVIYAGVRGYLDKLEPSKITKFENAFLSHVVSQHALLGT
IRADGKISEQSDAKLKEIVTNFLAGFEA

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FIGURE 5064

CCATGGACTTTATCAACGACGCCACCGACGTCAACGATGCCCTGGGCTATGTGACCCGCTTCTACCGCGAGGCCT
CGTCCGGCGCTGCCAAGAAGAGGCTGCTGCTCTTCTCAGATGGCAACTCGCAGGGCGCCACGCCCCTGCCATCG
AGAAGGCCGTGCAGGAAGCCCAGCGGGCAGGCATCGAGATCTTCGTGGTGGTTCGTGGGCCGCCAGGTGAATGAGC
CCCACATCCGCGTCTTGGTCACCGGCAAGACGGCCGAGTACGACGTGGCCTACGGCGAGAGCCACCTGTTCCGTG
TCCCCAGCTACCAGGCCCTGCTCCGCGGTGTCTTCCACCAGACAGTCTCCAGGAAGGTGGCGCTGGGCTAGCCCA
CCCTGCACGCCGGCACCAAACCTGTCTCCACCCCTCCCCACTCATCACTAAACAGAGTAAATGTGATGCGA
ATTTTCCCGACCAACCTGATTCGCTAGATTTTTTTCCTTCTGTGTTTTTTTCTGAACCATATCCATGTTGCTGAC
TTTTCAAATAAAGGTTTTCACTCCTC

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FIGURE 5065

CTCAGCCCCAGCTCCAACAGAAGCAGCCCGGCCACCCACTCCCCGTGACCGCCACGCCACATGGACACAGCCCT
CGCCCTCCGCCCCGGCTTTTCTCTGCCTTTCTACCGACCATGTGACCCCGCACCAGCCCTGCCCCACCTGCCCT
CCCGGGCAGTACTGGGGACCTTCCCTGGGGGACGGGGAGGGAGGAGGCAGCGACTCCTTGGACAGAGGCCTGGGC
CCTCAGTGGACTGCCCTGCTCCACAGCCTGGGCTGACGTGAGAGGCCGAGGCCAGGAAGTGAAGTGAAGGCCCTGG
TCCTGGGTCTCAGGATGGGTCTGGGGGCTCGTGTTCATCAAGACACCCCTCTGCCCAGCTCACCACATCTTCA
TCACCAGCAAACGCCAGGACTTGGCTCCCCCATCCTCAGAACTCACAAGCCATTGCTCCCCAGCTGGGGAACTC
AACCTCCCCCTGCCCTCGGTTGGTGACAGAGGGGGTGGGACAGGGGGCGGGGGTCCCCCTGTACATACCCTGCC
ATACCAACCCCAGGTATTAATTCTCGCTGGTTTTGTGTTTTTATTTTAATTTTTTGTGTTTTGATTTTTTTAATAAGA
ATTTTCATTTTAAGCACATTTATACTGAAGGAATTTGTGCTGTGTATTGGGGGAGCTGGATCCAGAGCTGGAGG
GGGTGGGTCCGGGGGAGGGAGTGGCTCGGAAGGGGCCCCACTCTCCTTTCATGTCCCTGTGCCCCCAGTTCTC
CTCCTCAGCCTTTTCTCCTCAGTTTTCTCTTTAAACTGTGAAGTACTAACTTTCCAAGGCCTGCCTTCCCCTC
CCTCCCCTGAGAGAAGCGCCAGCCCTTTCTCCTCTGCCTGACCACTGGGTGTGGACGGTGTGGGGCAGCCCT
GAAAGGACAGGCTCCTGGCCTTGGCACTTGCCTGCACCCACCATGAGGCATGGAGCAGGGCATAGCAAGGGCCCC
GGGACAGAGTTTTCCAGACCTGGCTCCTCGGCAGAGCTGCCTCCCGTCAGGGCCCACATCATCTAGGCTCCCCA
GCCCCACTGTGAAGGGGCTGGCCAGGGGCCCCGAGCTGCCCCACCCCCGGCCTCAGCCACCAGCAGCCCCATAG
GGCCCCCAGACACCACACACATGCGCGTGCGCACACACACAAACACACACACACTGGACAGTAGATGGGCCGACA
CACACTTGGCCCGAGTTCTCCTCCATTTCCCTGGCXTGGCCCCCACCCCCAACCTGTCCCACCCCCGTGCCCCCTC
CTTACCCCGCAGGACGGGCCTACAGGGGG

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FIGURE 5066

AGGTTTCGATACAAGAGGCTGTTTTCTAGCGTGGCTTGCTGCCTTTGGTAAGAACATGTCGTCCATCTTGCCATT
CACGCCGCCAGTTGTGAAGAGACTGCTGGGATGGAAGAAGTCAGCTGGTGGGTCTGGAGGAGCAGGCCGAGGAGA
GCAGAATGGGCAGGAAGAAAAGTGGTGTGAGAAAGCAGTGAAAAGTCTGGTGAAGAAGCTAAAGAAAACAGGACG
ATTAGATGAGCTTGAGAAAGCCATCACCCTCAAACTGTAATACTAAATGTGTTACCATAACCAAGCACTTGCTC
TGAAATTTGGGGACTGAGTACACCAAATACGATAGATCAGTGGGATACAACAGGCCTTTACAGCTTCTCTGAACA
AACCAGGTCTCTTGATGGTCGTCTCCAGGTATCCCATCGAAAAGGATTGCCACATGTTATATATTGCCGATTATG
GCGCTGGCCTGATCTTCACAGTCATCATGAACTCAAGGCAATTGAAAAGTGCGAATATGCTTTTAATCTTAAAAA
GGATGAAGTATGTGTAAACCCCTTACCACTATCAGAGAGTTGAGACACCAGTTTTGCCTCCAGTATTAGTGCCCCG
ACACACCGAGATCCTAACAGAACTTCCGCCCTCTGGATGACTATACTCACTCCATTCCAGAAAACACTAACTTCCC
AGCAGGAATTGAGCCACAGAGTAATTATATTCCAGAAACGCCACCTCCTGGATATATCAGTGAAGATGGAGAAAC
AAGTGACCAACAGTTGAATCAAAGTATGGACACAGGCTCTCCAGCAGAACTATCTCCTACTACTCTTTCCCCTGT
TAATCATAGCTTGGATTTACAGCCAGTTACTTACTCAGAACCTGCATTTTGGTGTTTCGATAGCATATTATGAATT
AAATCAGAGGGTTGGAGAAACCTTCCATGCAACACAGCCCTCACTCACTGTAGATGGCTTTACAGACCCATCAAA
TTCAGAGAGGTTCTGCTTAGGTTTACTCTCCAATGTTAACCGAAATGCCACGGTAGAAATGACAAGAAGGCATAT
AGGAAGAGGAGTGCCTTATACTACXATAGGTGGGGAAGTTTTTGTGCTGAGTGCCTAAGTGATAGTGCAATCTTTG
TGCAGAGCCCCAATTGTAATCAGAGATATGGCTGGCACCCTGCAACAGTGTGTAAAATTCCACCAGGCTGTAATC
TGAAGATCTTCAACAACCAGGAATTTGCTGCTCTTCTGGCTCAGTCTGTTAATCAGGGTTTTGAAGCCGTCTATC
AGCTAACTAGAAATGTGCACCATAAGAATGAGTTTTGTGAAAGGGTGGGGAGCAGAATACCGAAGGCAGACGGTAA
CAAGTACTCCTTGCTGGATTGAACTTCATCTGAATGGACCTCTACAGTGGTTGGACAAAGTATTAAGTCAAGTGG
GATCCCCCTCAGTGCCTTGCTCAAGCATGTCTATAAGCTTCACCAATCAAGTCCCATGAAAAGACTTAATGTAAC
AACTCTTCTGTATAGCATTGTGTGTGGTCCCTATGGACTGTTTACTATCCAAAAGTTCAAGAGAGAAAACAGCA
CTTGAGGTCTCATCAATTAAAGCACCTTGTGGAATCTGTTTCTATATTGAAATATTAGATGGGAAAATTAGTGT
CTAGAAATACTCTCCCATTAAGAGGAAGAGAAGATTTTAAAGACTTAATGATGTCTTATTGGGCATAAACTGA
GTGTCCCAAAGGTTTATTAATAACAGTAGTAGTTATGTGTACAGGTAATGTATCATGATCCAGTATCACAGTATT
GTGCTGTTTATATACATTTTTAGTTTGCATAGATGAGGTGTGTGTGCGCTGCTTCTTGATCTAGGCAAACCTT
TATAAAGTTGCAGTACCTAATCTGTTATTCCCCTTCTCTGTTATTTTTGTGTGTCTTTTTTAATATATAATATA
TATCAAGATTTTCAAATTATTTAGAAGCAGATTTTCTGTAGAAAACTAATTTTTCTGCCTTTTACCAAAAATA
AACTCTTGGGG

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FIGURE 5067

TCCTCTTTCCCTAAGCAGCCTGAGGGTTGACTGGATTGGTGAGGCCCGTGTGGCTACTTCTGTGGAAGCAGTGCT
GTAGTTACTGGAAGATAAAAGGGAAAGCAAGCCCTTGGTGGGGGAAAGTATGGCTGCGATGATGGCATTTCCTTAG
GACACCTTTGGATTAATAATGAAAACAACTACTCTCTGAGCAGCTGTTTGAATCATCTGATATTTATACTGAATG
AGTTACTGTAAGTACGTATTGACAGAATTACACTGTACTTTCTCTAGGTGATCTGTGAAAATGGTTTCGCTATTTC
ACTTGACCCGGAGAACCCACGAAATCATGCAAATCAAGAGGTTCCAATCTTCGTGTTCACTTTAAGAACACTCG
TGAAACTGCTCAGGCCATCAAGGGTATGCATATACGAAAAGCCACGAAGTATCTGAAAGATGTCACTTTACAGAA
ACAGTGTGTACCATTTCCGACGTTACAATGGTGGAGTTGGCAGGTGTGCGCAGGCCAAGCAATGGGGCTGGACACA
AGGTCGGTGGCCCAAAAAGAGTGCTGAATTTTTGCTGCACATGCTTAAAAACGCAGAGAGTAATGCTGAACTTAA
GGGTTTAGATGTAGATTCTCTGGTCATTGAGCATATCCAAGTGAACAAAGCACCTAAGATGCGCCGCCGGACCTA
CAGAGCTCATGGTCGGATTAACCCATACATGAGCTCTCCCTGCCACATTGAGATGATCCTTACGGAAAAGGAACA
GATTGTTTCCTAAACCAGAAGAGGAGGTTGCCCAGAAGAAAAAGATATCCCAGAAGAACTGAAGAAACAAAAACT
TATGGCACGGGAGTAAATTTCAGCATTAAATAAATGTAATTAAAAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5068

MVRYSLDPENPTKSCKSRGSNLRVHFKNTRETAQAIKGMHIRKATKYLKDVTLQKQCVPFRRYNGGVGRCAQAKQ
WGWTQGRWPKKSAEFLHMLKNAESNAELKGLDVDSLVIHQVNKAPKMRRRTYRAHGRINPYMSSPCHIEMIL
TEKEQIVPKPEEEVAQKKKISQKKLKKQKLMARE

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FIGURE 5069

GCTGAGCATCGCCAGGGCGGGCGGCAGGGCGGGCCTCTCCGCCGGGTGTACCTCCTGTCGCGGCGCGAGACCTC
TGGTGAAGAAAAAGATGTTGTCCCGGTTAAGAGTAGTTTCCACCACTTGTACTTTGGCATGTGACATTTGCACA
TAAAGAAAAAGGCAAGCCACTTATGCTGAACCCAAGAACAAACAAGGGAATGGCATTCTTTACAAGAACGAC
AAATGCTTGGTCTTCAAGGACTTCTACCTCCCAAAATAGAGACACAAGATATTCAAGCCTTACGATTTTCATAGAA
ACTTGAAGAAAATGACTAGCCCTTTGGAAAAATATATCTACATAATGGGAATACAAGAAAGAAATGAGAAATTGT
TTTATAGAATACTGCAAGATGACATTGAGAGTTTAAATGCCAATTGTATATACACCGACGGTTGGTCTTGCCCTGCT
CCCAGTATGGACACATCTTTAGAAGACCTAAGGGATTATTTATTTTCGATCTCAGACAGAGGTCATGTTAGATCAA
TTGTGGATAACTGGCCAGAAAATCATGTTAAGGCTGTTGTAGTGACTGATGGAGAGAGAATTCTGGGTCTTGAG
ATCTGGGTGTCTATGGAATGGGAATTCAGTAGGAAAACCTTGTGTTGTATACAGCTTGTGCAGGAATACGGCCTG
ATAGATGCCCTGCCAGTGTGTATTGATGTGGGAACGTATAATCGCACTCTTAAAAGACCCATTTTACATGGGCT
TGTACCAGAAACGAGATCGCACACAACAGTATGATGACCTGATTGATGAGTTTATGAAAGCTATTACTGACAGAT
ATGGCCGGAACACACTCATTTCAGTTCGAAGACTTTGGAAATCATAATGCATTCAGGTTCTTGAGAAAGTACCGAG
AAAAATATTGTACTTTCAATGATGATATTCAAGGGACAGCTGCAGTAGCTCTAGCAGGTCTTCTTGACGACAAA
AAGTTATTAGTAAACCAATCTCCGAACACAAAATCTTATTCCTTGGAGCAGGAGAGGCTGCTCTTGGAATTGCAA
ATCTTATAGTTATGTCTATGGTAGAAAATGGCCTGTCAGAACAAGAGGCACAAAAGAAAATCTGGATGTTTGACA
AGTATGGTTTATTAGTTAAGGGACGGAAAGCAAAAATAGATAGTTATCAGGAACCATTCTACTCACTCAGCCCCAG
AGAGCATACCTGATACTTTTGAAGATGCAGTGAATATACTGAAGCCTTCAACTATTATTGGAGTTGCAGGTGCTG
GCCGTCTTTTCACTCCTGATGTAATCAGAGCCATGGCCTCTATCAATGAAAGGCCTGTAATATTGTCATTAAGTA
ATCCTACAGCACAGGCAGAGTGCACGGCTGAAGAAGCATATACACTTACAGAGGGCAGGTGTTTGTGTTGCCAGTG
GCAGTCCATTTGGGCCAGTGAACTTACAGATGGGCGAGTCTTTACACCAGGTCAAGGAAACAATGTTTATATTT
TTCCAGGTGTGGCTTTAGCTGTTATTCTCTGTAACACCCGGCATATTAGTGACAGTGTTTTCTAGAAGCTGCAA
AGGCCCTGACAAGCCAATTGACAGATGAAGAGCTAGCCCAAGGGAGACTTTACCCACCGCTTGCTAATATTCAGG
AAGTTTCTATTAAACATTGCTATTAAAGTTACAGAATACCTATATGCTAATAAAATGGCTTTCCGATACCCAGAAC
CTGAAGACAAGGCCAAATATGTTAAAGAAAGAACATGGCGGAGTGAATATGATTCCCTGCTGCCAGATGTGTATG
AATGGCCAGAATCTGCATCAAGCCCTCCTGTGATAACAGAATAGAAAGCACTCCCCCTGATAAATACTTTCTGTGCT
CCAGGGAACCCCTTTTTTCAGACAAGAAGAGATAATGTCTTCAGTTTTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5070

MLSRRLRVVSTTCTLACRHLHIKEKGKPLMLNPRTNKGMAFTLQERQMLGLQGLLPK IETQDIQALRFHRNLKKM
TSPLEKYIYIMGIQERNEKLFYRILQDDIESLMP IVYTP TVGLACSQYGHIFRRPKGLFISISDRGHVRSIVDNW
PENHVKAVVVDGERILGLGDLGVYGMGIPVGKLCLYTACAGIRPDRCLPVCIDVGTDNIALLKDPFYMGLYQKR
DRTQQYDDLIDEFMKAITDRYGRNTLIQFEDFGNHNAFRFLRKYREKYCTFNDDIQGTAVALAGLLAAQKVISK
PISEHKILFLGAGEAALGIANLIVMSMVENGLSEQEAQKKIWMFDKYGLLVKGRKAKIDSYQEPFTHSAPESIPD
TFEDAVNILKPSTIIGVAGAGRLFTPDVIRAMASINERPVIFALSNP TAQAECTAEEAYTLTEGRCLFASGSPFG
PVKLT DGRVFTPGQGNNVYIFPGVALAVILCNTRHISDSVFLEAAKALTSQLTDEELAQGRLYPPLANIQEVSIN
IAIKVTEYLYANKMAFRYPEPEDKAKYVKERTWRSEYDSL LPDVYEWPESSASSPPVITE

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FIGURE 5071

GCTAGGGCGCGGCGGGCGGTTTGAATTTTGCTTACAGAGTCCCGTCTCACCATCCTGGGCTTCCAACGGAGACTG
CGGTATCCGCAGCTGGAGACCCAGCGGCGAGTAGCCTTTTGCTCCCGGACGGACTTGAGGTTGGAGTCTGTGTGT
TGGGGACCCTGCCTTTGGAAGCGCCCGAGAGGCTTAAAGGATGGCCTCGTCAGATCTGGAACAATTATGCTCTCA
TGTTAATGAAAAGATTGGCAATATTAAGAAAACCTTATCATTAAAGAACTGTGGCCAGGAACCTACCTTGAAAAC
TGTATTAAATAAAATAGGAGATGAGATCATTGTAATAAATGAACTTCTAAATAAATTGGAATTGGAAATTCAGTA
TCAAGAACAAACCAACAATTCACCTCAAGGAACTCTGTGAATCTCTTGAAGAAGATTACAAAGACATAGAACATCT
TAAAGAAAACGTTCCCTTCCCATTTGCCTCAAGTAACAGTAACCCAGAGCTGTGTTAAGGGATCAGATCTTGATCC
TGAAGAACCAATCAAAGTTGAAGAACCTGAACCCGTAAAGAAGCCTCCCAAAGAGCAAAGAAGTATTAAGGAAAT
GCCATTTATAACTTGTGATGAGTTCAATGGTGTTCCTTCGTACATGAAATCCCGCTTAACCTATAATCAAATTAA
TGATGTTATTAAAGAAATCAACAAGGCAGTAATTAGTAAATATAAAATCCTACATCAGCCAAAAAGTCTATGAA
TTCTGTGACCAGAAATCTCTATCACAGATTTATTGATGAAGAAACGAAGGATACCAAAGGTCGTTATTTTATAGT
GGAAGCTGACATAAAGGAGTTTCACTTTTGAAAGCTGACAAGAAGTTTACGTGTTACTGAATATTTTACGACA
CTGCCGGAGGCTATCAGAGGTCCGAGGGGGAGGACTTACTCGTTATGTTATAACCTGAGTCCCTTGTGAACCTTT
GAACATACCAACAGGGTATAGAGTATAGAGGCTATTTCTATAATTTTCTTATATATAATTTTTTTAACTTTTAAT
CTTTTTTGTTCCTTTTTTTTTTTTTTTTGAGACAGGATCTTGCTTTGTCACCCAGGGGCTTGCTTTGTCACGCAGG
CTAGAGTGCAGTGGCGCAAACATGGCTCACTGCAGCCTCAACCTCCAGGCTCAAGTGATCCTCCACCTCAGCC
CCCTGAATGGCTGGGACTACAAGCGTGCGCCACCATGCCTGGCTAATTTTTGTATTTTTTGGAGAGATGGGGTTT
CACCATGTTGCCTAGGCTGGTCTTGAGCTCCTGAGCTCAAACAATCCACCCTCCTCAGCCTCCCAAAGTGCTGGG
ATTACAGGCTTGAGCCACCACACCTGACCTATTCTTGTTCCTTATAAAAATAAACTTTTTTGGATAAAGCTTAT
TTCTTGTTTTTTCTTTTTCTTTTTTTTTTTTTTTGAGACAGTCTCGCTCTTTCACCCAGGCCGGACTGCAGCGG
CGCTATCTCGGCTCACTGCAAACCTCTGCCTCCCAGGTTACGCCATCCTCCTGCCTCAGCTACTCAGGAGAATTG
CTTGAACCTAGGAGGTGGAGGTGTCAGTGAGCCGAGATCGTGCCACTGCACTCCAGTCTGGGCAACAGAGCGAGA
CTCCATCTCAGAAAAAAGAAAAAAGACTGGGTACAGATGTGATATTGGAAGAAAAAGATCAAGCTGATGAGGT
TAGGATACCCAGGCCCTTTGGACTTAAAGATCACTAGTGTCTAAATTCCATCGATGGCATTTCAGTCTATAGGTA
AACTTCCTGGAAGCTGGATTTGGAGACAGTTTATCATCTGATTATTGGGCTTTTCGTATAGGTCCTTAGGGAGCAG
CTTACCTGAAATGCATTTAGTGACACCAGTCTGTAACTTCAACCTGTAATGAAAGTGTAATAAATGTACATTG
AGTTGATGTGATAATGTGATATAATAAGAAATATATATTGATCTTCCTATCTAGTTTCCTTGTTTCAGAGCTCCTA
AAACCCTTGTAATTTCCAAAGTGATGGAGTACATCTTTTGTCTAGTATTTGGTCTTTGACCCAGTTCTTGACA
CAAAGCTCCTAAATTCCTTTAAATTTCCCAGTGATAGGAGAATTTTTTGTTCATAGAGTCACTCTTGATGGGQ
ACCTGGATAACTCAGGATGGGGGCTGCTCACAAAGACCACATCATGATTGGAAGTTTCAAACCTTTCAGTCTCCCA
CCTCCAGAGAGGGGAGAGGGGCTGGAGATTTGTGTCAATAATCCATCAGGCCTATGTCAACAAGACATAATCCGT
TAACTATGGAGTTCAGGGAGCTTCAGGGTTGGCAAACATTTTGATGTGCCAGGAAGGTGACGCACTCCAGCTTTA
TGAAGTCAGCAAGTCCTGTGCTCAGGATGCTTCTGGACCTTGCCCCAGGTACCCCTTCATGTGGCTGTTGTTTCAT
CTGTATCCTTTGTAGTAGCCTTAAATAAACTGTAAACAC

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FIGURE 5072

CCGACATGTTGAGTCATAAGACGCGTCGGTGTTCAGTCTGTGTCCTTGGAGGTGACCAGGGCCACTGCAGGCAT
GGTGCTAGCAGAGCTGTACGTCTCTGACCGAGAGGGAAGCGATGCCACGGGAGATGGAACCAAGGAGAAACCATT
TAAACAGGTCTAAAGGCTTTGATGACAGTAGGGAAAGAACCATTTCCTACCATTTACGTAGATTACAAAAAGA
AAATGAGAGGTGGAATGTTATTTCTAAATCACAGTTGAAGAACATTAAAAAGATGTGGCATAGGGAACAAATGAA
GAGTGAATCCCGGAAAAAGAAAGAGGCAGAAGATAGTTTACGAAGAGAAAAGAACCTGGAAGAAGCAAAAGAAGAT
TACCATTAAAAATGATCCAAGTCTCCCAGAGCCAAAATGTGTGAAGATTGGTGCCTTAGAAGGATATAGAGGCCA
AAGAGTAAAGGTGTTTGGCTGGGTCCACAGGCTGCGCAGGCAAGGAAAGAATTTAATGTTTCTGGTGTTCGAGAA
TGGTACAGGTTATCTTCAGTGTGTCTTGGCGGATGAGTTGTGTGCTGCTACAATGGAGTTCTCTTGTCCACGGA
GAGCAGTGTTCAGTGTATGGAATGCTAAATCTTACCCCAAAGGGCAAGCAGGCTCCAGGTGGCCATGAGCTGAG
TTGTGACTTCTGGAACTAATTGGGTGGGCCCTGCTGGAGGAGCTGACAACCTGATCAATGAGGAGTCTGACGT
TGATGTCCAGCTCAACAACAGACACATGATGATCCGAGGAGAAAACATGTCCAAAATCCTAAAAGCACGATCCAT
GGTCACCAGGTGCTTTAGAGATCACTTCTTTGATAGGGGTACTATGAAGTTACTCCTCCAACATTAGTGCAAAC
ACAAGTAGAAGGTGGTGCCACACTCTTCAAGCTTGACTATTTTGGGGAAGAGGCATTTTGGACTCAATCCTCTCA
GTTGTACTTGGAGACCTGCCCTCCAGCCCTGGGAGATGTTTTTGTATTGCTCAGTCATACCGGGCAGAGCAGTC
CAGAACACGAAGGCACCTGGCTGAGTACACTCAGTGGAAGCTGAGTGTCTTTCTGACTTTTGACGACCTCCT
GAACCGGTTGGAGGACTTGGTTTGTGATGTGGTAGATCGAATATTGAAGTCACCTGCAGGGAGCATAGTGCATGA
GCTCAACCCGAACCTTTCAGCCCCCAAACGGCCTTTCAAACGGATGAACATTTCAGATGCTATCGTTTGGCTAAA
AGAACATGATGTAAAGAAAGAAGATGGAACCTTCTATGAATTTGGAGAAGATATCCAGAAGCTCCTGAGAGACT
GATGACAGACACCATTAATGAACCAATCTTGCTGTGTGCTGATTTCTGTGGAGATCAAGTCCTTCTACATGCAGCG
ATGTCTTGAGGATTCCCGTCTTACTGAATCTGTGACGTGTTGATGCCCAATGTTGGTGAGATTGTGGGAGGCTC
AATGCGTATCTTTGATAGTGAAGAAATACTGGCAGGTTATAAAAGGGAAGGGATTGACCCCACTCCCTATTACTG
GTATACGGATCAGAGAAAATACGGTACATGTCCCATGGAGGATATGGCTTGGGCTTGGAACGATTCTTAACGTG
GATTCTGAATAGGTATCACATCCGAGACGTGTGCTTATACCCTCGATTTGTCCAGCGTTGCACGCCATAACCAT
TTCTCCAGAAGCGTGGAGGAAAGATTATGAAAGGAACAGGCTCTTTAAAAAAGAAAACAAAAAGCCAGAATCTTC
CTTTTTTTTGTTCATTGGGGTTTCTCTTTCTGTTTTTCTTTCTACTACCATAAAAACTATCTCAAATCACCTGA
ACATCAAGTGATATTAAGGTTGTCATCTTAAGAAAAAATATCCATTTTTTTCTTAAGTTCGGGAAACAAAGTTCG
GGGAAATACCTGGCATGAACTGTAGTTAGGGATACATTTACGATTTTACTCACTTTATCCAAGTTATTCTTCT
TTATTCAAGTTATATGTATGTATAATTCAACAATTTTAGATTATGGTGTAAAGATACTCCAGTAACCTTATCTTCT
GTCCTTTTAAGTGACCTGGAATTCCTTGATTTATTTTATTGCATCAATGAATTAACAAAAATCTTGGGGGAA
GAAATTGGCAATATCGTATAAAAAATCTGCTCATATTAGAACACAGTATAATTCAGCAGTAAACACTAGAAATCAA
TGAATAGCCTTTTGTATCAGTTATTAATCTTTTCTAACTCTGCTTAGCTGCTAATAATCCTGAGGCATAGAAAT
GAAGAATTTGTAAAAATAGAATTGCCTTAAAGGATTGGAAGTAAGAACATAATTTTGGGGAGAGTTTTTTAGTGA
TTCACAGTATCCCTCTTAGCATTAAATTAAGGTAAAGAGGCAGATTGATTTTCCCTCTTTCTGGTAATTCCTAA
GTAATTAAGAATAAATAAGTTCCAAAAGAAATTGTAGCTGGAATCTTAATAACAATTGTGAGTGGCTGTTTGAAT
TGCCCCCACCATGTCCTTAGATCTAATCTGTGCTACCTTATTAACCTCACAGCAGGCTTACTGAATGGCTTCATTT
CAGATTTAGTTGATTTCTCCACCAAATGCATGTATCTCAATAGGCTGTATTCCCAGCAGTCAATAAATG
AACACCCGTAAAAA

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FIGURE 5073

MVLAELYVSDREGSDATGDGTKEKPFKTGLKALMTVGKEPFPTIYVDSQKENERWNVISKSQKNIKKMWHREQM
KSESREKKEAEDSLRREKNLEEAKKITIKNDPSLPEPKCVKIGALEGYRGQRVKVFGWVHRLRRQGKNLMFLVLR
DGTGYLQCVLADELQCYNQVLLSTESSVAVYGMLNLTPKKGQAPGGHELSCDFWELIGLAPAGGADNLINEESD
VDVQLNNRHMMIRGENMSKILKARSMVTRCFRDHFFDRGYEYVTPPTLVQTQVEGGATLTKLDYFGEEAFLTQSS
QLYLETCLPALGDVFCIAQSYRAEQSRTRRHLAEYTHVEAECPFLLTFDDLLNRLEDLVCDVVDRIKSPAGSIVH
ELNPNFQPPKRPFKRMNYSDAIVWLKEHDVKKEDGTFYEFGEDIPAPERLMTDTINEPILLCRFPVEIKSFYMQ
RCPEDSRLTESVDVLMFNVGEIVGGSMRIFDSEEILAGYKREGIDPTPYWYTDQRKYGTCPHGGYGLGLERFLT
WILNRYHIRDVCLYPRFVQRCTP

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FIGURE 5074

CGGCCAGCGACGCGGTTACCTCCTGCTGTCTCGCCCTCGCCCCGCGAGCTGCCCCGACGCGAGATGTCTTA
TTTACCAACAAATCCACCAGGGAGCATTCTTATTTGCTGGCTCGGCGTCTCTCTCAGCAGTCACCGGAGTGCCGG
AGGGGGAAGCGGATTTACGGAAGACTATTACCCAGAAGAAAAGATGTTTGTTCACAAGCCAAAGATGTACC
GAAGTATAGAGGGCTACTGTATTTGCAGAGCTAAGTCCTCCAGTTCTCGATTCACTGACAGTAAACGCTATGAAA
AGGACTTCCAGAGCTGTTTGGATTGCATGAGACTCGTTCAGGAGACATCTGCAATGCCTGTGTCTGCTTGTGAA
AAGATGGAAGAAGTTGCCAGCAGGATCAAAAAAAAAAACTGGAATCATGTGGTAGATGCAAGGGTTGGACCCAGT
CTAAAGACTACATTGAAACCAAGAAAGTGAAGTCTATCTGGGAACAGGATAAAAAGCAACCAGATCAGTAAA
CTGCAGAAGGAATTTAAACGTCATAATTCTGATGCTCACAATACCACCTCAAGTGCCTCCCCAGCTCCATCTCCT
CGTTACAGTAACCAGTCAGATGACGGCTCAGATACAGAGATGGCTTCTGGTTCTAACAGAACACCAGTTTTTTTCC
TTTTTAGATCTCACATACTGGAAGACAGAGAAGATATGTTGTGGGATCAACTATAAAGGCCGTTTTTGGGGAACTC
CTCATTGACACACATCCCTTCAAGCCTTGCTGCAGCAATAAGAAAGCAGCTGCCGAGAAGCCAGAGGAGCAGGGG
CCAGAGCCTCTGCCCATCTCCACTCAGGAGTGGTGACTGAGGTTTTTATGTAGAAGGGGAACAAAAAAATCTGA
ATTTTGAAGAACACAAAGCAGCAAACTGACCCTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTAGACGGAGTTT
TGCTCTTGTTACCCAGGCAGGAGTGCAGTGGCGTGATCTTGGCTCACTGCAACTTCCGTCTCCCGGGTTCAAGTG
ATTCTCCTGCCTTAGCCTCCCAAGTAGCTGGGTTTATATGTGCCGCCACCAGACCCGGCTAATATTTTAGTTTT
AGTAGAGACGGGGTTTACCACATTGGCCAGGCTGGTCTCAAATGACCCTCTTATTTTAACTTGGATACCTGTCT
ATTCTGCCAAAAGACAATTTCTACAGTAGTTTGAATGGGTTGATATCCCCTAGTCCCACAACTCTGAAGCCAG
TGTCCAGCTTACTAAAAAAGAGTGGTACATAATTTAAGATGCTGAGTATTTCATAGGAAAGATGAATGCTGC
TGTAAGTACTCTTTAAGTCTTTTTTTTTTTTAAATCCCTTCTAATGAATGAAACTAGGGGAATTTAGGGGACA
GAGATGGGATTTGTTGTATGATAAACTGTATGTAGTTTTTAGTCTTTCTGTATTGAGATGCAGTGGTTGGGGCAT
TTTTAAGATGGCTGGCTACTTGTTTTCCCTCATGATAATAAATTTGTCATAACTCAGTAACATGAACCTGCCCCCT
AGAGGTAGTTGTTAATGATTTTGAAATATTAAGGTCTTGCCAAGCTTGTGATGATTCAAACCTGTACTACTGATT
ATTAAGCAGGACAGACTGAGCTTTCTGTTGCAAATACCTTGGAGGAGAAAGTAACTTCTAAATATACAGAGAGGT
AACTTGACTATATATGTTGCATCCTGTGCCTCCCTTCATATTAATATTTGATAAAGATTTAATTTTGTAAAC
TTCTAAAGCAGAATCAAAGCTCCTCTTGGGGAAATGGCAAGTCTTAGGACAGGCGAGACCCTGTATGAATAGTA
CCAAAGCATTACCGCATGGTAGAGAACACACTCGATTAAAAATGTTAAGCTATCTGAAAAATAAAATGTACAAGT
CCTCAGGATGGCACAAAACAAAGGTTAATGCTTCTTGGGGCACATTTCTTAGAGGGCTTGCTGAGTGTGTAAATA
TAATCGACTTTTGTGTTGTGTTCTGTGACTTCATTGAAAATCTTTACAATTCAGTTTCAGCTCTGGATTACTTCAG
TTGACCTTTGTGAAGGTTTTTATCTGTGTAGAATGGGTGTTTGACTTGTTTTAGCCTATTAAGTTTTTATTTTCT
TTCACTCTGTATTAAGTAAACTTACTAAAAGAAAAGAGGTTTGTGTTACATTAAATGGTTTTTGGTTTGGCT
TCTTTTAGTCAGGCTTTCTGAACATTGAGATATCCTGAACCTAGAGCTCTTCAATCCTAAGATTTTCATGAAAAG
CCTCTCACTTGAACCTAAACCAGAGTACTCTTACTGCCTCTTTTCTAAATGTTTCAGGAAAAGCATCGCCAGTTCTG
GTCTTTTTCAGAATGAGGGAGAAAACATTTGCCTGCCTTGTAATAACAAGACTCAGTGCTCATTTTTTAACTGCAT
TTTAAAAATTTGGATAGTATAATAACAATAAGGAGTAAGCCACCTTTTATAGGCACCCTGTAGTTTTATAGTTCTT
AATCTAAACATTTTATATTTTCTTCTTTTGGAAAAACCTACATGCTACAAGCCACCATATGCACAGACTATACA
GCGAGTTGAGTTGGCTTCTCCACAGTCTTTGAGGCGAATTACAAAAGTCCAGCCATTATCATCCTCCTGAGTTA
TTTTGAAATGATTTTTTTGTACATTTTGGCTGCAGTATTGGTGGTAGAATATACTATAATATGGATCATCTCTAC
TTCTGTATTTATTTATTTATTACTAGACCTCAACCACAGTCTTCTTTTTCCCTTCCACCTCTCTTTGCCTGTAG
GATGTACTGTATGTAGTCATGCATTTGTATTAATATATTAGAAATCTACAGATCTGTTTTGACTTTTTTATACT
GTTGGATACTTATAATCAAACTTTTACTAGGGTATTGAATAAATCTAGTCTTATTAGAAAATAAAAAAAGAA
AGAAA

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FIGURE 5075

GCTGTCCTCGCCCTCGCCCCGGCGAGCTGCCCCGACGCGAGATGTCTTATTTACCAACAAATCCACCAGGGAGC
ATTCTTATTTGCTGGCTCGGCGTCTCTCTCAGCAGTCACCGGAGTGCCGGAGGGGGAAGCGCGATTTACGGAAGA
CTATTACCCAGAAGAAAAGATGTTTGTTTTTACAAAGCCAAAGATGTACCGAAGTATAGAGGGCTACTGTATTTG
CAGAGCTAAGTCCTCCAGTTCTCGATTCACTGACAGTAAACGCTATGAAAAGGACTTCCAGAGCTGTTTGGAATTG
CATGAGACTCGTTCAGGAGACATCTGCAATGCCTGTGTCTGCTTGTGAAAAGATGGAAGAAGTTGCCAGCAGGA
TCAAAAAAAAAAACTGGAATCATGTGGTAGATGCAAGGGTTGGACCCAGTCTAAAGACTACATTGAAACCAAAGA
AAGTGAAAACCTCTATCTGGGAACAGGATAAAAAGCAACCAGATCAGTAAACTGCAGAAGGAATTTAAACGTCATA
ATTCTGATGCTCACAATACCACCTCAAGTGCCTCCCCAGCTCCATCTCCTCGTTACAGTAACCAGTCAGATGACG
GCTCAGATACAGAGATGGCTTCTGGTTCTAACAGAACACCAGTTTTTCTTTTGTAGATCTCACATACTGGCCTC
ATTGACACACATCCCTTCAAGCCTTGCTGCAGCAAT

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FIGURE 5076

ACTTCTGCCCTTTTGGCTCTCTGACCAGCACCATGGTGGTGGGCAAGAACAAGCACCTTACGAAAGGCGGCAAAA
AGGGAGCCAAGAAGAAAAGTGGTTGATCCATTTTCTAAGAAAGATTGGTTTGACGCGAAAGCACCTACTACGTTCA
ATATAAGAAATATTGGAAAAGACGCTCATCACCAGGACCCAGGGAACCAAAATTGCATCTGATGGTCTCAAGGGTC
GTGTGTTTGAAGTGAGTCTTGCTGATTTGCAGAATGATGAAGTTGCATTTAGAAAATTCAGCTGATTACTGAAGA
TGTTTCAGGGCAAAAACCTGCCTAACTTCCATGGCATGGATCTTACCCATGACAAAATGTGTTCCATGGTCAAAAAA
TGGCAGACAATGATTGAAGCTCATGTTGATGTCAAGACTACCGATGGTTACTTGCTTCGTCCTTTTCTGTGTTGGT
TTTACTAAAAAACGCAGCAATCAGATACGGAAGACCTCTTATGCTCAGCAACAACAGGTCCGCCAAATCCGGAAG
AAGATGATGGAAATCATGACTCGAGAGGTGCAGACAAATGACGTGAAAGAAGTGGTCAATAAATTGATTCCAGAC
AGCATTGGAAAAGACATAGAAAAGACTTGCCAATCTATTTATCCTCTCTATGATGTCTTCGTTAGAAAAGTAAAA
ATGTTGAAGAAGCCCAAGTTTGAAGTGGGAAAGCTCÀTGAGCTTCATGGTGAAGGCAGTAGTTCTGGAAAAGCT
GCTGGGGACGAGACAGGTGCTAAAGTTGAATGAGCTGATGGATATGAACCACCAGTCCAAGAATCTGTTTAAAGT
TCAGACTTCAAATAGTGGCAAATAAAAAGTGCTATTTGT

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FIGURE 5077

MDLTHDKMCSMVKKWQTMIEAHVDVKT TDGYLLRLFCVGFTKKRSNQIRKTSYAQQQQVRQIRKKMMEIMTREVQ
TNDVKEVVNKLIPDSIGKDIEKTCQSIYPLYDV FVRKV KMLKKPKFELGKLMELHGE GSSSGKAAGDETGA KVE

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FIGURE 5078

ATGAAAGAGGCCATCGGATGCGAGGACATCAGCCCAGTAACTTTGAGGGAAGAAGGTTTTCTTCCCCTGCTGCC
TATGCCGTGGGGTTTGAGCACGTCTCTCGGGGGGAAGTCATGGCCCATAGCCAGCTTGCTGCAATGGAAGCGATG
CTTACAGTAAGGCGAGTTCCCTGGACACGATATATGAGAGTGAGGACACAGTGCCAGAGTTGGGAGTTGACCGA
ACCTACCTTCAGATGGGATTTCTGCTTGAAAACCAGGAAGCAGAACTCAGATGTGAATTACGCTTTCTAGACATT
CAACTGCTATCAAAGAATAATTGCCATGCTAAATTATTTATATTTGTGGAGCAAATGACTTTAGGCACTAAGGCT
TTTATCTCTTCCCCTGAGGAACCTTTTGAACCTTTGTTTTCTTGAACCTCTATGCCATCCAGGCAGGGGGATTAGAA
GAACCTCCTAATCTGAGTAATTTGAATAAACTGAGGGAAATTTGTGAAAAGAAAGATTACAAGGTGATGAAAAAG
AGAGTAGATAATGAAGAGGGTGTA AAAACTTATAAGGTACTGGAAAGGCAGCCATGAAATTCCTGACCATGGAA
CCCAAAC TGAGAGATGACAGACTTGAAGGATATGGAGAAAAAGATTCAAGTTCTTGGCGGAGAAGGTCATGTTCA
GAAGCAAGTAAGGTAGTGAGAGCGTACTTACAACCTATCGTGTGGAAGCTGCTCAGTGATGAGACTGGGAAAGAT
GAATATGCGTACGCTCTTTCACTCACAGCAAAATCACTAAGCTTCTCTGAGGGTATAGGATACTTTCTTTTCTAT
GGGTCAGTGATGGTCATTACTGGAAGTTCCCATCACTTCCC GGTCATCTTCCTGTGCTGGAGAACAAACCTAAA
CACGAGGGTTGGGGAACTGA

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FIGURE 5079

MKEAIGCEDISPVTLREEGFPSAAYAVGFEHVSERGEVMAHSQLAAMEAMLTVRRVPWTRYMRVRTQCPELGVDR
TYLQMGFLLLENQEAELRCELRFIDQLLSKNNCHAKLFI FVEQMTLGTKAFISSPEEPFELCFLELYAIQAGGLE
EPPNLSNLNKLREIVEKKDYKVMKKRVDNEEGVKTYKVLERAAMKFLTMEPKLRDDRLEGYGEKDSSSWRRRSCS
EASKVVRAYLQLIVWKLLSDETGKDEYAYALSLTAKSLSFSEGIGYFLFYGSVMVITGSSHFPVHLPVLENKPK
HEGWGN

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FIGURE 5080

ATGGTCTATGGAATTAAAAATATGGTCCCTTTGTTGCAGACTTTGCTGATAAACTCAATGAGCAAAACCTTGCC
CAACTAGAAGAGGCGAAGCAGGCTTCCATCCAACAAATCCAGAATGCAATTGATATGGAGAAGTCACAACAGGCA
CTGGTTCAGAAGCGCCATTACCTTTTTGATGTGCAAAGGAATAACATTGCTATGGCTTTGGAAGTTACTTACCGG
GAACGACTGTATAGAGTATATAAGGAAGTAAAGAATCGCCTGGACTATCATATATCTGTGCAGAACATGATGTGT

TGA

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FIGURE 5081

MVYGIKKYGPVADFADKLNEQNLAQLEEAQASIQQIQNAIDMEKSQQALVQKRHYLFDVQRNNIAMALEVTYR
ERLYRVYKEVKNRLDYHISVQNMMC

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FIGURE 5082

ACGTGGTACGGAACCGGCGCCGCGCTTGCTGCTGGTAACAGGGCCCTTGCCTAGTGGGCCCTTCCTTCCCAGGTGCG
CCCTCAGTCTCCACTAGAGACAGGACTGACCAGTTGCTCTTTCCTTCCAAGAACCTTCGAGATCTGCGGTCTGGGG
TCTGGTTGAAAGATGGCGGCCCTCACTACCCTGTTTAAGTACATAGATGAAAAATCAGGATCGCTACATTAAGAAA
CTCGCAAAATGGGTGGCTATCCAGAGTGTGTCTGCGTGGCCGGAGAGAAGAGAGGCGAAATCAGGAGGATGATGGAA
GTTGCTGCTGCAGATGTTAAGCAGTTGGGGGGCTCTGTGGAACCTGGTGGATATCGGAAAAACAAAAGCTCCCTGAT
GGCTCGGAGATCCCCTCCCTCCTATTCTGCTCGGCAGGCTGGGCTCCGACCCACAGAAGAAGACCGTGTGCATT
TACGGGCACCTGGATGTGCGAGCCTGCAGCCCTGGAGGACGGCTGGGACAGCGAGCCCTTACCCTGGTGGAGCGA
GACGGCAAGCTGTATGGGAGAGGTTGACTGATGATAAGGGCCCCGTGGCCGGCTGGATAAACGCCCTGGAAGCG
TATCAGAAAAACAGGCCAGGAGATTCTGTCAACGTCCGATTCTGCCTCGAAGGCATGGAGGAGTCAGGCTCTGAG
GGCCTAGACGAGCTGATTTTTGCCCGGAAAGACACATTCTTTAAGGATGTGGACTATGTCTGCATTTCTGACAAT
TACTGGCTGGGAAAGAAGAAGCCCTGCATCACCTACGGCCTCAGGGGCATTTGCTACTTTTTTCATCGAGGTGGAG
TGCAGCAACAAAGACCTCCATTCTGGGGTGACGGGGGCTCGGTGCATGAGGCCATGACTGATCTCATTTTTGCTG
ATGGGCTCTTTGGTGGACAAGAGGGGGGAACATCCTGATCCCCGGCATTAAACGAGGCCGTGGCCGCCGTACCGGAA
GAGGAGCACAAAGCTGTACGACGACATCGACTTTGACATAGAGGAGTTTGCCAAGGATGTGGGGGGCGCAGATCCTC
CTGCACAGCCACAAGAAAGACATCCTCATGCACCGATGGCGGTACCCGTCTCTGTCCCTCCATGGCATCGAAGGC
GCCTTCTCTGGGTCTGGGGCCAAGACCGTGATTCCCAGGAAGGTGGTTGGCAAGTTCTCCATCAGGCTCGTGCCG
AACATGACTCCTGAAGTCGTGCGCGAGCAGGTCACAAAGCTACCTAACTAAGAAGTTTGCTGAACTACGCAGCCCC
AATGAGTTCAAGGTGTACATGGGCCACGGTGGGAAGCCCTGGGTCTCCGACTTCAGTCACCCCTATTACCTGGCT
GGGAGAAGAGCCATGAAGACAGTTTTTTGGTGTGAGCCAGACTTGACCAGGGAAGGCGGCAGTATTCCTGTGACC
TTGACCTTTCAGGAGGCCACGGGCAAGAACGTCATGCTGCTGCTGCTGTTGGGTACGCGGATGACGGAGCCCACTCC
CAGAATGAAAAGCTCAACAGGTATAACTACATAGAGGGAACCAAGATGCTGGCCGCGTACCTGTATGAGGTCTCC
CAGCTGAAGGACTAGGCCAAGCCCTCTGTGTGCCATCTCCAATGAGAAGGAATCCTGCCCTCACCTACCCCTTTT
CCAACTTGCCAGGGAAGTGGAGGTTCCCTCTTTCTTTCCCTCTTGCTCAGGTATCCATGACTTTAGAGAACAG
ACACAAGTGTATCCAGCTGTCCACGGGTGGAGCTACCCGTGTTGGGCTTATGAGTGACCTGGAGTGACAGCTGAGTC
ACCTGGGTAAAGTTCTCAGAGTGGTCAGGATGGCTTGACCTGCAGAAGATACCCAAGGTCCAAAAGCACAAAGGTC
TGCGGAAAGTTCTGGTTGTGCGCCGGGCACCACGGCTCACACCTATAATCGAGCACTTTGGGAGGCCAAGACAGG
AGGATCACTTGAGGCCAGGAGTCTGAGACAAGCCTAGGCAACAAAACAAGACTCTGTCTCTACAAAAAGTTTAAAG
AAATGAGCCAGACATGGTGGTGTATGCCTGTAGTCCAGCCACTCAGAAGGCTGAGGCAGGAGGATCGCTTGAGA
CCAAGAGTTTGAGCCTGCGGTGAGCTGTGAATGCACCACGGCACTCAAGCCTGGGCAATGTAGCAAGATCCTGTC
TCTACAAGAAATTTTTTAAAAATGAGCCAAGTGTGGTGGTGCATGCCTGTAGTTCCAGCTACTCAGGACACTGAC
GTAGGAGGGTTGCTTGAGACTGAGAGTTGGAGGCTGCGATGAGCCATGAATGCCCCACTGCACTCCAGCCTGGGC
GACAGAACGAGACCCCATCTCAAAAAAATAAGTTCTGGTTGTGATTGAATTGGGATAAAACAGAGAGCTTGATGC
TTTCTGCCCTTCTGTCTCAGGTGATGCATTGCACATTTGGGATATTTGGAAAAGGAAAATGAGGAAAAGAAATTAGGGC
CTCCTCTGATCTCTCGCTATCTGCGGGTCTGTCTTTTTCTCAAGACCTTCACCATTACTGGCATTTCCTGTCT
TCTCTTTAGTATGATCCCTCAAAACCTCACTAACTGGAAGGATGATTTTGTCTCAGTTTGTACTCCTAAATAAAA
AGTAAACATGACACCTCT

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FIGURE 5083A

AATCTGAGAGAGGCCGAGTGGAGTTCGGTCCTTCTCTGAACACTTTTAGCTGAGAGTACCAGCATCCAACCTGGGA
GCGTTGTCATTGCATTTCCACATTCCCAGGAAAGCCCAGGTGCTGGCTGCCAGCTGCTGCGCCCCCATGTAGAA
GGTGCACCTCCTGGGAGCAGGCACGTCTTTTGGCTCTTCTGACCATGGAGAGATAGGACGGTCCCTGCAGCCCCG
GCGACAGAAAGCTGTGCCGCCACCACCGGCCGCGCCGTCCTTCGGATGGATCGCAACAGAGAGGCCGAGATGGA
GCTGAGGCGAGGCCCCAGCCCCACCAGGGCCGCGGGGCCACGAGGTGGATGGGGACAAGGCTACCTGCCACAC
CTGCTGCATCTGCGGCAAGAGCTTCCCTTCCAGAGCTCGCTTTCGACGACATGCGCAAGCACACGGGCGAGAA
GCCCTACAAGTGTCCCTACTGCGACCACCGGGCTTCCCAGAAGGGCAACCTGAAGATTACATCCGGAGCCACCG
CACGGGGACTCTGATTACAGGGACACGAGCCGGAGGCGGGCGAGGCGCCGCTGGGTGAGATGCGCGCCTCCGAGGG
CCTGGACGCTGCGCCAGCCCCACCAAGAGCGCTCGGCCTGCAACCGGCTGCTGAACGGGGCCTCGCAGGCCGA
CGGCGCCAGGGTCTTGAACGGGGCCTCGCAGGCCGACAGCGGCAGAGTCTGCTGCGGAGCAGCAAGAAGGGGGC
AGAGGGGTCCGCATGCGCCCCGGGGGAGGCCAAGGCAGCGGTCCAGTGCTCCTTCTGCAAGAGCCAGTTCGAGCG
TAAGAAGGACCTGGAGCTGCACGTGCACCAGGCGCACAAGCCGTTCAAGTGCAGGCTGTGCAGCTACGCGACGCT
GCGGGAGGAGTCTGCTGCTGAGCCACATCGAGAGGGACCACATCACCGCGCAGGGGGCCCGCAGCGCGAGGCCCTG
CGTGAGAACGGCAAGCCGAGCTGAGCCCCGGGGAGTTCCCGTGCGAGGTGTGTGGCCAGGCCTTCAGCCAGAC
CTGGTTCCTGAAGGCGCACATGAAGAAGCACCGGGGCTCCTTCGACCACGGCTGCCACATCTGCGGCCGTAGGTT
CAAGGAGCCCTGGTTCTCAAGAACCACATGAAGGCGCACGGCCCCAAGACGGGCAGCAAGAACAGGCCCAAGAG
TGAGCTGGACCCCATCGCCACCATCAACAACGTGGTCCAGGAGGAGGTGATCGTCGCCGGCCTGAGCCTCTACGA
GGTCTGCGCCAAGTGCGGGAACCTGTTTACAAACCTGGACAGCTTGAACGCCCAATGCCATCCACCGCAGAGT
CGAGGCCAGCCGCACGCGCGCCCCGGCCGAGGAGGGGGCGGAGGGGGCCCTCGGACACCAAGCAGTTCTTCTCCA
GTGCTTGAACCTGAGGCGCTCGGCGCGCGGCGACTCGTGCCCTGGCACGACGCGCGGCGGCGGGTGGCTGAGCT
GGACCCGGTCAACAGCTACCAGGCCTGGCAGCTGGCCACGCGGGGTAAGGTGGCCGAGCCGGCCGAGTACCTCAA
GTACGGGGCCTGGGACGAGGCGCTGGCCGGGGACGTGGCCTTCGACAAGGACAGGCGCGAGTACGTCTTGGTGAG
CCAGGAGAAGCGCAAGCGTGAGCAGGATGCACCAGCCGCGCAGGGGGCCCCCGCGGAAGCGCGGAGCGGGCCTGG
GGACCCCGCGCCCCGCGGCCACCTCGATCCCCGCTCGGCCGCGCGCCCCAACCAGAGGGCCGACGCCACCACCGG
CCAGGGCAAGTCTCTCGAGTGCTTCGAGTGCGGCAAGATCTTCCGCACCTATCATCAGATGGTGCTGCACTCACG
CGTGATCGCCGCGCGCGCCGCGAGAGGGACAGTGACGGGGACAGGGCGCGCGGGCCGCTGCGGATCACTCAG
TGAGGGTGACTCGGCCTCCCAGCCCAGCAGCCCTGGCTCCGCCTGTGCCGCTGCTGACTCCCCGGGCTCTGGCCT
GGCCGACGAGGCTGCCGAAGACAGTGGTGAGGAGGGCGCCCTGAACCTGCACCAGGGGGACAGCCGCGCCGCTG
CTGCTTTTCCGAAGAGGTGACTTCGACCGAGCTCTCCAGTGAGAGACCAGAGTCACAAGATGGGAGATAACGCCTC
GGAAAAGACACCCGCGAGTCCAAGGCAGGGATCGCAGCTTCTGTGTCCATACTTGAAAACAGTAGCAGAGAGAC
TTCTAGAAGGCAAGAGCAGCACAGATTTTCTATGGACTTAAAGATGCCAGCATTTACCCCCAAGCAGGAGGTGCC
CGTCCCTGGTGATGGTGTGGAGTTCCCTTXXCAGTACGGGAGCGGAGGGCCAGACGGGTACCCCTGCAGAAAAGC
TGTCCGATTTGCACAACAAGGAACACTCTGGGGGAGGGAAGCGGGCGCTGGCCCCAGACCTCATGCCGCTAGATT
TAAGTGCGAGGTGACGCGGGATGACCCAGCAATAAGGAGACGGCCTCCTCCCTGCAGGCGGCTTTAGTCGTTT
ACCCGTGTCTTACTGCAGCCACAAGACCTACTACCCGAGGTCTGTGGATGCACAAACGCATCTGGCACCAGCG
TCAGCTGCAACTCCGTGGCTCCCCCGTGGATTACGCCAATGGTTACAAAAGCATCAGAAGCAATTTXGGTTTTT
CTTTCCCGGAGCGGACGACGGGGCCCCCGCTGCCCTCGGTGGCAAAGAATGCCAGCCTTTGCTCCTTGCTCXG
GTTACCCGCACTCAGGTGCCAGGGGGGATGCCGGGGTCCAAAAGTGGCTCTTCTCCCCCTGGGAGTGGTCACAAA
AGCCGCTAGCATGCCTAAGAATAAGGAGAGCCATTCCGAGGTCCCTGCGCTCTGTGGGCGCCCGGCCCTGACGG
GTATCGACAGACCAAACCTTGTACGGCCAGGAGCCACATGGCGCGGCCACACAGGGGGCCCTGGCCAAGCCCAG
GCAGGAGGCTAGCTCCAAACCGGTGCTGCCCCGCGXGTGGCGGGGGCTTCAGCAGGAGCGCCACCCCTACGCCCA
CCGTATCGCCCGGGCTGGCGCGCAGCCCTCGGCCAATAGCAAGCCTGTGGAGAAGTTGGGGTCCCCCAGCGG
GGGCTGGCTTTGCCCCACAAATAAGCACAGTGCCCCGGAATCCCTGAAAGCCAAATTCAGTGCTCAGCCTCAGG
GTCCACCTCCTGCAAAGGGCGAAGGGGGCGCTCCTCCTCTACCTCCCCGCGAGCCCCCTCGAAGGCAGCCCAGG
AGCTGAGGACTCTGGCCACCTGTGCTGCGGGGTCCAGGGGGCAGCGGGCCTTGCAAGGCCAGCCGCGTGGCTG
GGGCGCCCCCGTCTTACACTCCATCAAACAGGXAGCCGGTGGCCGAGGGGCATGAGAAGCGCCTGGACATCCT
CAACAXTCTTTAAGACGTACATTXCCAAAGGACTTTGCGACCCTCTACCAGGGATGGGGTGTACGCGGCCCTGGG
TTGGAGCACAGAGGGACACTCCGGACGACAGGCCCGGCCAGGAGAGTTCTGCTGATCGAGTGCGGAAAGAGCTTC

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FIGURE 5083B

CACCAGCCCGGCCACCTCAGGGCCACATGCGGGCACACTCAGTGGTGTGTTGAGTCCGATGGGCCTCGGGGTCT
GAAGTTCATACCACCTCCGCAGACGCCCCAAACAAGGGAGAGACCATTCTAACACAGGTACCGTCCAGACAGTG
CCTCTGAGAAAGGGAACCTAAAGGCGTGTTCGACGCACCCAGGTCCCGTAACGGCCATTAGCAGTACCCCTC
ACGATGTCCCAGCAGCCTCCACCTGTGACCTGGCCGCTCCATGGAAGAACAGCCGGGGAACCTCTGAGCAGACA
CCTCACATCCCGAGCCGCTGCGCTGGAGTGGAACTGAAGGCAGATGCCTCTCCTTGTTAAACGTTTCAGAAATAA
ATGAAGATGCTATATTCTAGAAATACATGTAGATACTATATACGCATTTACGTGCTCATCGTCCATAGTCCATA
TTTTCTTATAATAAACAGTAGTACTGGCAGGCACAGTAGGGGCACAAGGCATCTGTCTTATTCAAGACAAGTTTG
AGACACTGGAAAAAAGATACTTGTGTGTGTGTGGACAGAGTGGCGAGGCTGAGCACTGTACAGGGGCCTCC
CATGTTAAGAGGGACTGTGGGGATGATGTCAGAACAAGACGTGGTGGATTGAGGTTGATCGAGTATTAATACTA
CTGCCCTCCTTGTCTTAGTGGGTATTTAAATAGTAAATAAGAGAGAGGAAGGAGGTGACGTTTCAGGTGCTGTG
GGAAGCAGGCTTGGCGGAGGGGTATGATGATGAGACCTCATTGTTCACTGGCTCCATCGCACTCCTCCCTGGGG
CCGTGTGCCTGTTCCATTCTTCCCACCATTCGAACTGAGCGAATCTGGCAAAGGAGACACGTCTGTGGGAATGCG
TAGATTCCGCCTCGGAAGAGAGCTAGCGCAA¹ACTAAGAAAAGCAGGCTTCTTGTTTATTCTCAGGACCTTTTTG
TAACAGGGCTACATTCTGCAAACTGCTTACAAAGGAAGACTATACGTCTTAACAAATTATTTAGCCACTGAGTCC
TCCCGATTCCGACCTGTTTTAGTAATGGCAGAAGAATCCCTGAGCAGGTTTCAGGTGCCCTAGATGACTAGGGTGC
TGAGCTCTGGCGCCTTCTGTCCCACTCTTTGCCTCCCCGCCCTTCCCTGAGCCACCCAGCAAGTGGGTGTCT
TTTCTCCCTGGGCCTGGTGACCTCCACAGGATGAGTGACTTTGTTTCATAAAGGGTGGGGATCACCAGCCCCTTGG
GTGGGGGACGGCTTCATATACCTCTTCTCAGTAATGCAAATGCGAGTTTTTGTGGTGGGGGTTAAGGCCCATAA
CAAAGGATCTTAAACCATGCAGTGACGCAATTGAAATGGTATTCCACAGATATAAATATTTTTCTTTTCCCATTG
CCGTGACACTATGTGTGATGGTAATATTTCTGAGAGTTTCAGATTTTTGCACATATGATTTTATGCATTATCAAA
AGTTACTGCTGCCTTGAATGAAAATGTTCTGTGAAATTTTTTGCAAAAAGCTTTACTAGGTTTTTTTTTAATTGTG
AAATTTTGTAAAGGCAGGAAATGGATTAAAACGAGCATGCTAAATATATTTTTTCAAAAAGCAATAATTTTACAT
GTACAGAAATTATCCTAACCTTTAATACTGGCGAGAGCAACAGTTTACTTAATACGGTAATGGACTAGTGAGTT
TTTGTAGACAGTGGGCTTCTGATACAAAGTCTTGTTTAAACACAGACACACACACACAAACACACACACACAC
CCTAAAGTGTGGGTTTCTGTTCTAATGATTTGTTGAATATTATTATATTATTATTATTATTATTATTATTG
TTATTGTTATTAGTAATGTTTGGTTCTGGATTCTACTTGTTACTGAGTTTAAATTACTTGACGGTTTCAGGTTACT
TTGCAACACTTTCAAACGATGCAATGTAAGTGGCTAGCTTATATATATATATATATATATATATATATATATTTT
TTTTTTTTTTTACTTATTTTTTTCTGATATTCTTACACCAGATATGTACGAAAATGATCTGTCCTGTTGGTGTA
TTAGGAATGTCCATGCAGATACAGTTAAACAAC²TGTAATTGACTGTTCTGTAAAGTTATTTTGGGCAAAGTTGCG
GAGACACATTCCCTCTGTCCACCTAAGAAATCAGAAGACTCTTCTGTTGATTTATGTTTAATCATTTTCAGTAGTTT
CCCCACAGTGATCATTTCTGCATTTTCTGGCTTTTGTCTTCTGGCTGAAAGTGAATGGTGACTGTTAGGAATGT
CAGGGACTAGTGACCCAGTCCTGTTTCTGTGTTTTAGTTATTAATAAAGAAATCTGTACCCAAAGTG

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FIGURE 5084A

AGACCATCCAAGAAGACAGTGCAGCCACCTCCGAGAGCCTGGATGTGATGGCGTCACAGAAGAGACCCTCCCAGA
GGCACGGATCCAAGTACCTGGCCACAGCAAGTACCATGGACCATGCCAGGCATGGCTTCCTCCCAAGGCACAGAG
ACACGGGCATCCTTGACTCCATCGGGCGCTTCTTTGGCGGTGACAGGGGTGCGCCCAAGCGGGGCTCTGGCAAGG
TGAGCTCTGAGGAGTAGAGGAGTTTTAGTTTAAATGGAAAAAGCAAAGGAGAAATCAGTAGGTGAACCTAGCCAT
TAGAGGAAGAACTGGCACGTAGCCTCTTGCTGTCTAAGGTCTCGTTCCGTGCTGGAGAATGCATATGAGCCCAAG
AGTGTGGGCTGAGTGGCTGCTTAGGACGTTTTTCGTTTAACTCACCCCTCTTTTCCTCACAAGGGATGGTGGCC
GGGGTGTGGCTCAGGAATGTAAGGACATGCTGAATTCTGGATCTCTAAGGGTGCCTGGACATGGGCGTTGCAGAA
AGAGAGCCACATTCTCAGGGTCTCTGGTGGTGTGTGCTTGCAGGACTTGATGACTGATGTTGCCTCTGCAGCCAC
ACGCTGGGGTTCAACACTGGGTTATGCTCGTTTTTCTCGGAGTCAGTGTGCTAGCTTCATGTTGCTCTGCGAC
AATCATAGGATTGAGGTGAGGAAGACTTTTGAACAACTCCTCAATTTAAATCCGCCTTGAGCAAACGTTCTCT
GTGGTCTGAGAAGTGAAGGGGGGAGGGATAAATGAGTGTCTATGAATCAAAGCTTTATTATCTTGTGATTCCAT
TAATTTGCATACAGAGTCTTAGAAGTTTCTTTATTCAAAGCAAATGTGGATAAAAATGTATTACAAAAA
AACTCTGCTATGGGGTCCAGAGTCTAGGAGTGGTTTCTGCAGTTGATTGTCAGTGGAGAACCTGTGGCTGCTGGT
TCATCAAAGCGCTGGTCCCTGAGTGCCATTGAGATTGCAGATGCAGTATTTTACGTGATGTTTAGAGTGTGGT
GGTTGTGTAATTTTGGAGAGAAAGAAGTTTTTCCAAAAAAGTCCCTAGTTTATTGGGTGTTCTCACACAACCTG
TAAGATGAAGCTGTTTTTCTGCCTGTGTGCAGGGCTGATTCTGGAATTCCAGAAGGCCTTGTGGGAGCGTAAAAG
GCTTTTGAATAAAGTGTGGAACAGAGCGCTCATTCTGATAACATGCAATCATAAAAACCATAGGGCAACTTGA
GTTAAGGAGTTTCTAGAATTTGCTTTAGTCTCCAACCTGCAATTCCTTATTGATCATGAAATTGTTGAAGAGAAAC
ACAAATGTCAGTTTTACCTTTCTGTGGGCGTGAAAGCACATCGAAGTTTCAGGCAACTGTTAACATCTCTACCA
TCTGTCTGAGTTGAGATTTAGGTTGTGACACTTGCCGTGACTTATTTGTAAATGACATTTTGTGTGCTTAGAT
ACTAATGGAATTCATATTCTGGCTAGTTCTTTTCACTGCAATTTGTAGACATGTTCTTTTCTTTGTAGCAGTCTC
CCTCACCTGAAATGTTGGTGTCTTAACCGATTTCTAATGCTAATTTCAACTGGAAGCACTTTTCAAGCCAGC
TATCAAACCACACCAGACATGTATGGATTGCGGTTGCCCAATAAAGCGTTGCTATTATGTAAGCATCCCTCACGC
ATACAGCATCACCAGTTTTGAAAGCTTGAACATTTCTGCTTACTTCAAGGTACAGAAAAAATGTACTTAAA
CTGTGCAGAAAAGATGAAATCACTGGATAATATGATTATAAAATAAGCTTCATGTGAGTGACACTGGTTTTAGT
TGAATAAATGGTGAAGCATTGATATCAATCTGACTTTATCTCAAACAATATTGACACACATAGATGT
TTTTCTTCTTTTATGGTAAGATTACAGCCTTTATTGTCTTAAATCTCTTATACTCTTCAATATTTTCAAAGAAAA
CATTCTAGTCTCAGAAATAGTCCATCTCTTGCAAAACAGGGCTGGCCAATTATCAAGGACCCATAAAAAATCAA
ACACTTTCAAATAATTTTAAAAATAAAATAATTTTACATGATTGCTTTAGGAATTTTGAAGTATCCATTCTTTT
CACTATGGAGTGTGAAATATAGAAGATTTTAAATGAACAGGCTTGCCCTTTGATGCCAAAGGCAAAAAATAATA
ATAATAACATTTGCACGTGTGATCACAGAGCAGCTGTGAGGCATCCCGGGGGAGCGCACGCAGTGGGGATGTGAT
TGCTCCACTCAACTATTTTATCACAAGTGTGTAAACATGGGAGATGAAAGCTTAACTCTCTTACACCCAGCT
ACAGACCCGCAATGGCCCTAAAAATCTGGGGTATTGATTGGGTGGGCTGCCATGGAGGAATTTTGGTTTTGTTT
TTATTTTATTTGTTGTTCTGTTTACAAATCAGGAGAGCCCTGTTTTATATGCTAGGAAGGTCTTTGGGATAG
GCCGAAGAGGTGTGCAAACGAGCAGTGGAAGGCCCGGGCCCTGTCTCTCAGGACCACGGCGGCCTGCCCCACACA
CAGTTCTGCTTCTCCCTATCTAGAACGAGGTTTTCTGTCAGATTCTGTCAGACTCTGAGTGGAGCCCCCAT
GACCTATAAAAGGGGCTGTTTGTCTCTCTCCACCCCTCTGTGCTCTTCTCTCCCTCCCTTGAGGGCACATGGC
CGCTGGTACCACATGTTGGAGCGGCCGCCCGGAGCCCGGGAATGCCCTAACAAACCCCATGCTTGTGTTGCTGG
GAGCTGACATTCAAGAAAAGTGCAATTAATAATTCCTTGAGAAGGCATATTCTTTTGAAGCCGTAAATGAAAAGT
GCATTCACGGAGAACATGCTCCTTTGTTGTGAGAGGAAAGAAAGGACTGTTGTTGCCTTTAAGGAACAGTTTCC
CAGTTCCCCGGAATGTCAGGGTCACATGAGGAATGGGTGAGCACTTAGGGCCAAGATTGTCGTGTGCTTGGCCCG
GCAGCTTCTCTCTAAGTGACCTCTCCAGCATCACTCTGTGCCAGTGCTCATATCTGAGGCCACTTGAGTGTACG
AGGCAGAGCCTGGAAACATTAGCTTTGGAACCGTTCCCTTCTTTTATGTGGAGGAAGTAAGTTTCAACAAGAC
ACCTAAGCTGGACATGGTGTGTTGCTTGGATAGTTCCCAAAGCAGAAAGCAGCCAGGACATCCAGTACCCC
ACTTCTCCGTGCCGTGTACTTTTAGGGAGGTTTTCGAAAGCTAGCTTCTTACCGATGATTTTGTCTATTTTCTG
TTTTATGTGAAAACCTTCATTTATAACCTGCTCTTCTCAGTGTCTTCTATTTCAGCATTGAGTATGACTTCTATG
CCTCTAATTGCGACTGTATGGAGAAGAAGTGTGTGTCATTGAGTCCGTGGGATATAATCAGTCCGTGAAATTCA
TCAGAATGTTCTGTTGCCTGATTTTTTTTTTCATTGCATTTTAATTTCAATAAACATATTTAGTTCTACAGTAAC

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FIGURE 5084B

CTAATTCCTCATTGTTACCATGAGATCCTAATTCTGTAGCTGTGTTCTGTAAATCCCATGGGGCATGTACCATTG
GAGACACATGAAGGATACAGTAGACAGCACGGAAGGCAGCAGCAACACACAGGGGTGTCCTCCCTCCCAGAGCC
CAGTGTGCACACAGAACCAAATTCAATCTCATTTCATCGTGAGCTTGCATGGTAACTGATCCAGCCACTCAGTACC
TCCATTGGATAAGAGATTTGGCCACAGATTCTTCTAGAGAAAATCCAAATGTGGAGGGTGCATTTGTTTCTGCAC
CCAAACAAATACCTTTTGAGATTTCTTATAGGCATTCTCTCGAAGTCTCATTACTCTGATCAGTTATTGATCGG
AGGCTACCCCTGGCTCAGTCACCAGCTGCTCACTGTGTCCTTCTGTGGTCTCAGGAGCTGCAGTTGTTGCTGTTGT
ATGAATAGACGATAGTTAATTAGACTGGATGTGTCTGTACTGGCAGTGATTTTGCAACTTCCTCTGTATAAGCGA
TACATTTGTAAATCATGGGAATGTATTTGATGGTAATTGCCTGTGGTGGTTGTATCATGATTTAATTTTATTATG
AGCTTTTGGCTTTATATATTTTTCTGCCTTTTTATGCATTCATTAAACAGTTTAACAGAC

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FIGURE 5085

MGNHAGKRELNAEKASTNSETNRGESEKKRNLGELSRTTSEDNEVFGEADANQNNGTSSQDTAVTDSKRTADPKN
AWQDAHPADPGSRPHLIRLF SRDAPGEGGQHLQRQAL

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FIGURE 5086

CCTGGATGTGATGGCGTCACAGAAGAGACCCTCCCAGAGGCACGGATCCAAGTACCTGGCCACAGCAAGTACCAT
GGACCATGCCAGGCATGGCTTCCTCCCAAGGCACAGAGACACGGGCATCCTTGACTCCATCGGGCGCTTCTTTGG
CGGTGACAGGGGTGCGCCCAAGCGGGCTCTGGCAAGGTACCCTGGCTAAAGCCGGGCGGAGCCCTCTGCCCTC
TCATGCCCCGACCCAGCCTGGGCTGTGCAACATGTACAAGGACTCACACCACCCGGCAAGAACTGCTCACTACGG
CTCCCTGCCCCAGAAGTCACACGGCCGGACCCAAGATGAAAAACCCGTTAGTCCACTTCTTCAAGAACATTGTGAC
GCCTCGCACACCACCCCGTCGCGAGGGAAAGGGGGCCGAAGGCCAGAGACCAGGATTTGGCTACGGAGGCAGAGC
GTCCGACTATAAATCGGCTCACAAGGGATTCAAGGGAGTCGATGCCAGGGCACGCTTTCCAAAATTTTTAAGCT
GGGAGGAAGAGATAGTCGCTCTGGATCACCCATGGCTAGACGCTGAAAACCCACCTGGTTCCGGAATCCTGTCCT
CAGCTTCTTAATATAACTGCCTTAAAACCTTTAATCCCACTTGCCCTGTTACCTAATTAGAGCAGATGACCCCTC
CCCTAATGCCTGCGGAGTTGTGCACGTAGTAGGGTCAGGCCACGGCAGCCTACCGGCAATTTCCGGCCAACAGTT
AAATGAGAACATGAAAACAGAAAACGGTTAAAACCTGTCCCTTCTGTGTGAAGATCACGTTCTTTCCCCGCAAT
GTGCCCCCAGACGCACGTGGGTCTTCAGGGGGCCAGGTGCACAGACGTCCCTCCACGTTACCCCTCCACCCTTG
GACTTCTTTTCGCCGTGGCTGCGGCACCCTTGCGCTTTTGCTGGTCACTGCCATGGAGGCACACAGCTGCAGAG
ACAGAGAGGACGTGGGCGGCAGAGAGGACTGTTGACATCCAAGCTTCCTTTGTTTTTTTTTCTGTCTTCTCTC
ACCTCCTAAAGTAGACTTCATTTTTCTTAACAGGATTAGACAGTCAAGGAGTGGCTTACTACATGTGGGAGCTTT
TGGTATGTGACATGCGGGCTGGGCAGCTGTTAGAGTCCAACGTGGGGCAGCACAGAGAGGGGGCCACCTCCCCAG
GCCGTGGCTGCCCACACACCCCAATTAGCTG

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FIGURE 5087

MASQKRPSQRHGSKYLATASTMDHARHGFLPRHRDTGILDSIGRFFGGDRGAPKRGSGKVPWLKPGRSPLPSHAR
SQPGLCNMYKDSHHPARTAHYGSLPQKSHGRTQDENPVVHFFKNIVTPRTPPPSQKGAEGQRPFGYGGGRASY
KSAHKGFGVDAQGTLSKIFKLGGDRDSRSGSPMARR

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FIGURE 5088

GGCGCCTGAGCGGACTGACGCCGAGACGCGCGCGGGTCAGCGGCGCGGGGACGCGGGGCGCTGGGCGCGGGGCTG
GGGGCGCAGGCCCCGAGGCCGAGGAGCGCGCGGAGCGGCGATGAGCAGGCGGCCGGTGGCCCCGCGGGGCGCGGA
GCCCCGTGACAGCCTCGGCCAGGCGGGCGCTGCGATGGAGGCCGAGGGCCTGGACTGGCTCCTGGTGCCACTGCAC
CAGCTGGTGTCTTGGGGCGCGGCCGCGGCCATGGTCTTCGGAGGGGTGGTGCCCTACGTCCCCGAGTATCGGGAC
ATTGCGCAGGACGCAGAACGCCGACGGCTTCTCCACCTACGTGTGCCTGGTGCTGGTGCCAAACATTTTGC GG
ATACTCTTCTGGTTTGAAGGCGCTTTGAGTCCCCGCTGCTGTGGCAGAGCGCCATCATGATCCTGACCATGCTG
CTGATGCTGAAGCTGTGCACCGAGGTCCGTGTGGCCAACGAGCTCAACGCCAGGCGCCGCTCCTTTACAGCTGCA
GATAGCAAGGATGAAGAAGTCAAGGTTGCCCCAGGCGGTCTTCTGGACTTCGACCCCCACCACCTTCTGGCAG
TGGAGCAGCTTCTCGGACTACGTGCAGTGCCTTGGCCTTACGCGGCGTGCGGGGCTACATCACCTACCTGTCC
ATTGACTCCGCCCTGTTTGTGGAGACCCTGGGCTTCTGGCTGTGCTGACCGAAGCCATGCTGGGTGTGCCCCAG
CTTTACCGCAACCACCGCCACCAGTCCACGGAGGGCATGAGCATCAAGATGGTGCTCATGTGGACCAGTGGTGAC
GCCITTCAAGACGGCCTACTTCTGCTGAAGGTGCCCTCTGCAGTTCTCCGTGTGCGGCCTGCTGCAGGTGCTG
GTGGACCTGGCCATCCTGGGGCAGGCCTACGCTTTCGCCCGCCACCCCCAGAAGCCGGCGCCCCACGCCGTGCAC
CCCCTGGCACCAAGGCCCTCTGACAGTGGGGAGGACGAGGATGTGGGACCGCCAGCCGCGGGCACTGGTGGGCC
CTGACCTCCCCGCGGGGAGGGTGGGTGCTGTGGCCCTGCAGGTGTGGCAGAGATGGGGCATGGGCATTGGGGTC
TCCATCAGCCTCTGTGGGGTGTCTCAGGGTGGGCAGTGGGGGTGGGGCTGGGACGCTGTTTGTGCTCAGCGGGGA
CAGCCAGGGTTGATCTGGCCCCGAGGGTTTTGGATGTTTTTAGGATGACATAAAAAGCAAGTGTTTTCCCCATT
CCTCTTATGAAACACCGTCTGAGCCCAAGGTACACATTGGCGGCCTGCAGGAACCTGCTCCAGGTGGACACAG
GGCCAGCAGCCGCAACCTTGAAGCTGGGGTGACCGCAGGAGACCCTGTAAGGCCTGTGAGCGGAGCCCTCGACC
CCGTGACACCCTGGCCAGACACCCTGCTTGGACTGGGGTGGCCTCTGCTACCCAGGGGTCTGGCACGGGGGAGGG
CTGGGGCTTTCTCTGCCTGGTACACACGGAAGGCGGCTGTGCGGACGCAGGGTCACCGTGCTCCGGGTTTTCTG
ACAGTCGGTGTTTCTTGGGCCCTTGGAGTGGCTGCGAGGCCTGAACGCCTTGTGGATCCGCTGTGTCCAGCCCGG
CTGAGCATCGCCAGGGCTAGCTCATGCTGCTCTTGTGACCTCTGGTTCTCCTCGAGTCCCTGGGGACGTGGCAG
ATGCCAGCGACCATCAGACAACGTGGAGGCCCTCATGGGCAATGGCTGAGGGGGCCGGGCTGAGGCTGTGCACAT
GCAGTCTGCACGCCACTCTTGGGCTCTGCTGGCGGAGATCCCCTTCTTCTGGGTGCAGACTGCACCTCCGGATG
CAGTTTTGATGTCCATCTTCCAGGAGAGACGGTCTCGGGTCCAGGGAGTGGAGGGGGCTGCCCTGCCGTGCAGG
TCCTGGCCGATGGCGCCTTACCCCTGCTGCCCTGGGCTTTTGGCCTGAAGCAAATTCCTGAGTGGGGGGTACTGGG
GCCTGCCGCATCCTGTCTGTCCACTGCCACCCCCGTGTGCTGGCTCCCTCACTTCTGGCTGCAGTGGGAGCCG
CCAGTCTGACCCTTGTACCCGCACGCTCTGCCCCACCCCGTTGCAAGAGGTACACCATGTGACGAGCCTTGCA
CTGACCGCAGCCGGCCCCCAGGCCTCAGAGTTCTGGATGCTTCCGTGCGGCTCCAACAGGCATCGTCTTCCCTTC
CGCAGGTGGAGGGGCCGCTTCCCGCAGGCATCTGAGCTCTGTGCCGGGGCCGTGGCCATGGGAAGATGTTCCACG
CTGCCTCCTCTCGAGTTTTTCTCGGAAACACTCTTGAATGTCTGAGTGAGGGTCCCTGCTTAGCTCTTTGGCCTG
TGAGATGCTTTGAAAATTTTTATTTTTTAAGATGAAGCAAGATGTCTGTAGCGGTAATTGCCTCACATTAACT
GTGCGCGACTGCAGGCGCAGTGACTGCTGAATGTACCCTGTGTGGCGACTTGAATCAATAAACCATTGTGGAT
CCTG

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FIGURE 5089A

CTGGGTTGTGTCGCCGCGGTAGGCGCTGCGCTCTGAGCGCAGCGCAGGCCCCGTACCGACCGCCCGCCCGCCCTC
TGTCCGCGATGGAGGTGCCGGCCGCGGTTCGCGTTCTTCCGAGGGCGCCCCGACGGCGGCTGTGGCCGAGGTGC
GCTGCCCGGGGGCCCGCGCCGCTGCGCCTGCTGGAGTGGAGGGTGGCGGGCGGGCGGGCCGTGCGCATCGGCTCGG
TGCTGGCCGTGTTTCGAGGCCGCCGCTCCGCGCAGTCTCCGGGGCCTCTCAGTCCCGTGTAGCCTCCGGGGGCT
GCGTGCGCCCCGCGCGGCCGGAACGCAGGCTGAGGTTCGAGCGCGCGGGCGTGGTGCGGGAGCTGTGCGCGCAGC
CGGGCCAGGTGGTTCGCCCCAGGAGCGGTTCTGGTGGAGTTGGAAGGATGCAGCCACCCGGTTGTTCATGAAAGGCC
TGTGTGCTGAATGTGGCCAAGACCTCACCCAGTTGCAGAGTAAGAACGGGAAGCAGCAGGTGCCGCTGTCCACGG
CGACCGTGTCCATGGTGCACAGCGTGCCGGAGTTGATGGTGGAGTCCGAGCAAGCTGAACAGCTGGGAAGAGAAG
ACCAGCAGCGACTGCACCGAAACCGGAAGCTGGTGCTCATGGTGGACTTGGACCAGACGTTGATTACACAAACCG
AGCAGCACTGTGACGAGATGTGAATAAAGGCATCTTTCACTTCCAGCTGGGCCGGGGTGAGCCCATGCTGCACA
CGCGCCTGCGTCCACACTGCAAGGACTTCTGGAGAAGATCGCCAAGCTGTACGAGCTGCACGTCTTCACCTTCG
GCAGCCGGCTGTACGCACACACCATCGCAGGCTTTTTAGACCCCGAGAAGAAGCTTTTTTCTACCGAATATTAT
CAAGGGATGAATGTATTGACCATTTTTCTAAAACGGGAAACCTTAGAAATCTCTTTCTTGTGGAGACTCAATGG
TTTGCATTATTGATGATCGAGAAGATGTCTGGAAGTTTGCCCCCAATCTGATAACTGTGAAGAAATATGTATACT
TCCAGGGCACGGGTGATATGAATGCGCCCCCTGGGTCCCGAGAATCTCAGACGAGAAAGAAAGTAAATCATTTCTC
GAGGCACTGAGGTCTCAGAGCCATCTCCGCCCGTGAGAGACCCTGAGGGGGTAACGCAGGCCCCCTGGAGTGGAGC
CCAGCAATGGCCTGGAGAAGCCTGCACGGGAGCTGAACGGCAGCGAGGCCGCCACCCCGCGGGACTCACCCCGCC
CCGGGAAGCCAGACGAGAGGGACATCTGGCCCCCTGCCAGGCCCCACCAGCAGCCAAGAGCTGGCAGGCGCTC
CTGAGCCCCAGGGATCTGTGCGCAGGGTGGCCGGGTGGCACCGGGACAGCGGCTGCCAGGGTGCCACGGGCA
CTGACCTGGACTTTGACTTATCCAGCGACAGCGAGAGCAGTGTAGTCCGAGGGCACGAAGTCTCTCTCTCCG
CCTCTGATGGCGAAAGCGAGGGGAAAAGAGGCCGGCAGAAGCCGAAGGCTGCCCCAGAGGGAGCCGGGGCGCTGG
CACAGGGCAGTTCCCTGGAGCCGGGGCGGCTGCAGCACCGAGTCTCCCGGAGAGGGCCGAGCCTGGCGCGCATG
CCCCGGACAAGGAGCCTGAGCTGGGTGGGCAGGAGGAGGGCGAGCGGGATGGCCTCTGCGGCTGGGCAACGGCT
GTGCCGACAGGAAGGAGGCGGAGACCGAGTCACAGAACAGCGAGCTGTGCGGGGTCACTGCGGGTGAGTCCCTGG
ACCAGAGCATGGAGGAGGAGGAGGAGGACACGGATGAGGATGACCACCTCATCTACCTGGAGGAGATCCTGG
TCCGTGTACACACTGACTACTATGCCAAGTATGACCGCTACCTCAACAAGGAGATCGAGGAGGCGCCGGACATCC
GCAAGATCGTGCCGGAGCTCAAGAGCAAGGTGCTGGCAGACGTGGCCATAATTTTCAGTGGGCTACACCCGACAA
ACTTCCCGATAGAGAAGACGCGGGAGCATTACCACGCCACGGCGCTGGGAGCGAAGATCCTCACTCGGCTGGTGC
TGAGCCCCGACGCCCTGCAGGGCCACGCACCTGATCGCCGCGGAGCTGGCACAGAGAAGGTGCTGCAGGCAC
AGGAGTGGGACACCTGCACGTGGTCAACCCTGACTGGCTGTGGAGCTGCCTGGAGCGCTGGGACAAGGTGGAGG
AGCAGCTCTTCCCGCTCAGGGACGATCACACCAAGGCACAGAGGGAGAACAGCCCTGCGGCCTTTCCCGACCGGG
AGGGTGTGCCCCCACCGCCTTGTTCACCCGATGCCGGTTCTTCCCAAGGCCAGCCTGGCCCCGAGGTTCCGA
TCTACGACTCCAACACGGGGAAGCTCATCAGGACGGGCGCCCGGGGGCCCCCAGCACCTCCAGCTCCCTACCCA
TCCGCCAGGAGCCCTCTTCTTTCAGAGCGGTTCCGCCACCCAGCCGAGATGTTTGGTGAAGAGCTGCCTGACG
CTCAGGACGGAGAGCAGCCTGGCCCTTCTAGAAGAAAGCGACAGCCAGTATGTCTGAGACAATGCCGCTGTACA
CTCTTTGTAAGGAGGATTTAGAGAGTATGGACAAAGAGGTGGACGACATCCTTGGAGAAGGCAGCAGCAGACGCG
ACAGCGAGAAGAGGAGGCCTGAGGAGCAGGAGGAGGAGCCCCAGCCCCGGAAGCCAGGGACCCGAGGGAGCGGA
CGCTCGGGGCACCTGCGTCCAGCGAGAGGAGCGCGGCAGGGGGCCGGGGGGCCAGAGGCCACAAGAGGAAGCTGA
ATGAAGAGGACGCCGCCAGCGAGTCCAGCAGGGAGTCCAGCAACGAGGATGAGGGCAGCAGCTCCGAGGCCGACG
AGATGGCCAAGGCGCTGGAGGCGGAGCTCAACGACCTCATGTGAGCGCGGGCAGCGGGCAGGGACTGAAGCCTGA
CCGACCTCCAGCAGCACTCGGACGTCCCCGGACCAGCCCTCAGTCTCGGTCCACGCTGCTTTCTTCCCAAAGGAC
ATGTATATTTGCAGAGCTCCACATACAGAAACACATTATTTTGCAAGAAATAGGTGTTTTTAAGAAGTTTACTAC
AGGAATGTCTACTTTTGTAAAGTGACAGGTGTTAAAGGCCAGGTGTGCTGTGCCAAAGAGCTCAGCAGAGGCTCA
CGTGGCCCAGGCTGGTGCGCCGCTGTCTCGGTAAGGGGCGGGTGGTGTGTTTTCCCTTGTGTACCAGAGCAC
ATTCTTAGGGGACGGCTTTGGGGGTCCCACGAGACATGGACTAGGAGTTTAAGCAGGACAGTGTGCGTGCACGA
GCTCCGAGCCCAGCACAGACATGCCTGGAACCCCCGCGCCTGCTGCTCCCTCCTAGGGAACCCATTTCCGGGGA
ACGCCGTGACTGTGCGGCAGCCTGGAGCTTCTGACGCTCCTACGCAGGGTCCACGCCACGTGGCCTGGGCTGC
CATCTGCCGTCTCTCCACTGGCATCTGGCAAGGGGGCGTTGCTTTTCTGGGCGGCCTTTTATGTCTTGGAGA

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FIGURE 5089B

CACCTGATGTAAAGTTTCTGTAAATCTATTTTCATATCTGACCCACCAAACAGATTTCCTTTAATAAAAAATCCTT
TTTGTAAGTTC

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FIGURE 5090A

CACCCCTCCATCACCCAGCCTGAAACTCTACCCATTGAACACGAGCTGCCCAACTCCGCCTTGCTTCCCCATTCTGCGGACCACTGCTTCTGTCTCTGTGAATTTTGACTATTCTAGGCACTTCACAAAAGTGGACTCATACGATATCTGTAGTTTTGCGTCTGGCTTCTCTATTGAATTCCTAAAGGGGGGTGGGAACTAAGCAGATCACAAGGGAGCTGCCCACAGAGGTAAAGACAAGGTCAGGTAGGCTGAGAGACGCAGGAAAGCGGGTCAAGGCGTAGGGCTGGAGGGCAGGGCGGGGGCTGGGCGTGGGCTGGGGGTCTGCCCCGGGGCGCACCCCGGGCGAGGGCTGCCCGGAGGAGCCGAGGTTGGCGGACAGCTTGGCCCTGAGCTTGAGGGGAAGGCAGCGATGGGACAAAGGACGGAGGTCTAGGAAGAGGGTCTGCAGAGCAGAAAGCACGGGTAGGGGCGGCCTGACGCTCGGAAGACAACGCATGGGAGCCGTGTGCACGTCGGGAGCTCGGAGTGAGCGTGAGTTCCGTGCCAGGCCCGCGACTCGGCCCGACAGGACAGCGCTCCGGGTGCACGGGGTCTGGAGCCGCGCTCGGGGAGGGCGCAGCGGAGGGCGAGCGGGCGGCGTTAGGACCCGGAGGCGGGGCGGACTGGGGCGGCGGGGCTAGGACCCAGCGCTCCGGCAGAGCGGAAGCGGGCGGGAGCTTCCGGGAGGGCGGGCTCGCAGGCACCATGACTCCTGTGAGGATGCAGCACTCCCTGGCAGGTGAGACCTATGCCGTGCCCTTCATCCAGCCAGACCTGCGGGCAGAGGAGGGCGTCCAGCAGATGGCGGATGCCCTGCAGTACCTGCAGAAGGTCTCTGGAGACATCTTCAGCAGGTGGGTGCTGCCACTCACCCACCTGATGAGAGGGCCATCCCTGTCTGGGCAATCCAGCAACACACCCTCTGGGAGCAGCCCCCTTGGGGAATCCCGTCTGGGGAACCCATCTGGCTTCCCTGTGTGGAGGGGCTGAAGTGAGAGCCCCAACTTGGAAGCTTTTACTCCTGGGAGTCCAAGAGCTCACTCCCTTCCACCCCACTTAGCCTCCTGGTTTTCTGTGGTGGCTCTGCTCTCACAACCTATGCTTTTCTCCCATTGGAGGGCCTATTCCTTCACGTTTTCTGCAGCCAACAAATATTTACCCAGCAGTGCTCGTGTGAAGGCAGTGTTGGGAATCTCTATATATCCAGCCACGGATAGGCAACATACCTCTCCAÇCTGGAGCGCACATTCTGGCAGGAGAGAAAGACCTAAATAAGCAATAGATGATTAGTTCTTCAATAACAGTTGTGACAAGGTCTATTGATAATATTTTGTAATCACTAATATTCATATAAACCGTGCACAACATTGATTTGAGTGCACTTAACCTCACACTTCATGAGCAGGCACTGCCGTCACTCTATTTATAGATGAGGAACTGAGGCACAGAAGGGCTGAGAGACCTGGCCTAGTGACAGAGCCAGGATTCAAAGCCATAGATCATGGCCCCGGGTTATGTAGGTTATTACTGCATCTGTTTCAGGGGAGATGGGGTACTGTGAGGCTCGTCATGGGAAGCCTGGCTTGGTCTCAGGTACAGGAAGGCAGACGTGAGGAAATGACATTTATGGTAAAGTCTGAGGGTTGAGTGGGTAGGTTGGGAAGAACATTCCAGAAAGAAGCACATGAACCTACAGCCTGGAGGTGGAGGACCTAAAAGGAAGCCAGCATGGCTGGAGCAGGAGTGGCCATTGAGGGAGGCGAGCTGGAGGGCTGCAGCTTCTTGTATTGGCAGTGCTGACCTCGCACAGTCTTGGGCTCCAGTGACTTCACTCAGTGTTTTATCTAACATGAGTGAGTGAATGGTGTGTTGCTCTTTTTTGGTAAAGGTCACAGGGGTTGTGCGGTACACAGGTCTGTCTTTGGCCATAAGCAAACCTGAAATGAGGCTTGGTCTCCTTCCCAGGATCCCACACCATGCTCAGATGGTAGACCCAGTGGGAAGTATGTGACTGCCTGACTCAGGTGCCTCTCGTGGTCAAGCCATCCCTGCCCTGTCCCTTCCCTGGTTGTGCGCAGACCTGGAGCCCCTGCTCCTTCACTTTGCAGCCTCTCTTCTGTACCAACTGGGAACCCACCTCTTCTGAAAGTCTCCCCACTGACTCACCGCTTGCCCCGAGTTGTCAAGAATGTCCAGTAACAGGGGACACACAGTGAAGTGACTGAGGGGTTACCTTGGAGTTGATGCCTTGGCTCAGATCCAGCTCCCCGTGTTTTCTTCTCTGTAACTTGGGCAACCCCAACCCCTCTAAGCCTCGGTGTTCTCATTGTGAAGTTGTGGTAATAATGGTAGCTTCTCTGGTAGAATTATTTTAAATATTAAATTAATCAAAACATGCAAAGGAATGGAACAGTGCCTGGCACTTAGGAAGCCTTCAGGAAATGCTATCTCTTCCCTGTTGATAATCTTGACCCGTACACGTGCTTTTGGTTGCCATTCTATAAACCTGCCACCAATAGTAACAAAGTGCTGGATGCACCTTTTGTGCTTATCTTTGTGCTAAATGTGCCCCGAGGGACACCTAGGGAAGAGGATGCAGGTCTTTAAGAGCCATCAGCTCCAGATTATGGCCACCCATGTCCAGCACTTAGAATGGAGGCCAAAACCATTCCTCGGAAATTGTGTTTTCTTGCCAAGATGGGGACTGCGTGGTTGCCCTTCTCTGAGGGCAGCGCTGGATTTTTGGCGTCTTTCTTTCTGTCTGCTGGTACTTGGCACCTGTAGACAGTTGCATGTCCCTGCCAGGGATGGGATGAGGAGAGGGCAGGAAGGCATTTCTGGGTAGTGGAGTGCTGCGTTCAATTGAGTGTTGGGTTCTCCAAGCTGCTGGCACAGCGCAGGGAGGGCCAGATGCCTCTCAGGAGCCTTGGGCTGAGTCTGGCTCCCTCACTCCTGGGTTCCAGGTCACTGCATCTGTCTCTCCACCATGTGCTCCACCTCGTGCTGGACCTTAAGAGATACCAATTATGTGGCTGCCACTGTGTCTTAGAGGCTGGAATGGGAACACATAGGGCGAGATTGATTGTTAATTGCTAGCATGAACCGGTGGGCTTCTCAGGGTCTAGAGTGGAGAGAAATCGGTAAGAATTGTGGCACGCCTGTGAGAACTCCCCAGACCAAGCTAAGCAAAAATTAACCAATCAGTAGAGCAGCCTTCGGAGTAAAGGCTAAAATGATGTCTCAGGGCCTGGTTTTGCTTTCTTCCATGTCAAGTTTGCTTTTGGGTCTGGCTGCATTCACAGACAGGCCATGCTCTCGTGGTAGCAAGGTGACATGACACAGGGTCAGGTCCAGCAGGAAAGAATGCTGCTCTGTGTCCCCACTTCCCTCCAGAAGCCACACTCACTCATCCACCTGGCTTGGTCTCATGTCTATCCAGAATCCATTAATGGGGCCAGGGGACTATGACACACCACTTGGCTTAGACTGAGGAGCTCTGTGGGCGAGCCCCACCTGAAGC

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FIGURE 5090B

TCTGGGACTAAGCCTGCGAGAGAGATGGATTCCCCAAGGGAAATGGGGCCATTGCTTGAGTAAAAAGGAAATAGT
TGCTGAAGAGGAAAACACGTGCTTACTCCACATAGGGCAGACTCCTGGAAGAGGGGGGCAGGGTAGGGAGGTGG
ATATGCAGGTTGCCCTGGCAGGGTCTGGAATGGGGGCTGCAGGCTTGGAGGGAGGCCTCAGTGTGGCTTGGAAC
GTGGTGTATGGTGGTCTGCCGCGAAGGCCGGCCTGCACAGGGGTGGGAGGGGGGTGCTTCTGCATGGGAAGCACA
GACAGCGCTGCCTCTCCCTTGCACTCAGCTCTCGGGGCATGAGAGGCTAACTTCCGTGAGCCTGTGGGCCAGGC
CTCTTTGAATGGGGCTGAGGGAGCTTTGCCCTGGTTCCCTTTGTGTCCCCACGGTGCCACGGGAGGCTCCCTGGCA
GGGTGTGGGGCAGGGCAGTGAGTGAAGAGTTGGGATGAGTGAGTTAGGGCCCACGGATTACTCAAGACAGGACTT
CAAGTTGATTACAGGCGTGTAGGGAGCTGTGATTGGATTTTGTAGCAGGGCAGGGATGGGACAGAAGAGTTTGGGG
AAGGTTCCCTCAGGCATCCGTACAGAAAGGGACAAGAAGGGAGAGAGAGTGGATGCCAGGGACACCCAGAAGCTGT
TATTGTAGTCAGGATACGACAGGGGTGAGGCTACAGACAGGGGACTTGCAAGCAGGGAGGGCAGGGTGAGACATT
CAGAGGAAACGACGACAGGAAATGGTGACAGATAGGGAACGAGGATGAAGGGAAGGGAGAGCCAGTGACGACTGG
CAGTGGAGTGGGGAGCACCGCCACCTCTCCTCCTCACTTGCCCCCTCCTGTGGCACTGGACAAGCTAGTGGGCTT
TTCGTTGTCCATGGGCTTTTTCGGTGGGGATGTGACCAGCTTTGAACCCGTCCCCTTAAACATGCTCCTCCTGCA
CGGAAGAGACAGGGGCAGGGGAGAGACTCTCTCCCCACCACCCGGCTCAGGCCCCAGCACAGCCCGGCCTCTGGC
CTCACTGGCGTCTGTGCCCAGTGACGCAGGCAGGTGAGCTCCTGGCAAATTAGCATTGCAGGCTGTGCTCTCTCC
TCCTGCTCTGCTGCAGCTGGGAGTGTGCAGAGACTGGAGGGGATGACAGTCACCTCTGTTTTCTGTGGTGGCTC
TGTTTTCTGTGGTGTCTGGATGCACCTCTGTTTTCTGTGGTGGCTCCAAGAGAGTGCACGGTCCCTGCTGATTGAA
AGAAGGATGAAGGGCAGAAGAGGGGCGGGGAGCTGTGTGCCCTAAGATCTCATTGCCTTTTTATGCCGATTACA
TGCTTTTAGCCCCCTACTGAGCTTATAGTTAACAGAAGTTTCCAGGTCTTTCTTACCTGAACTGTGTCTAAAGCA
AGTTCCCTCCACCTTCTGTATTTATACGCTTGATTTTTAAACCTAAATGTTGGGCTTCACATTTGTTTCCTTGTA
AATTTTCATCTTGGTGATTGCAGTCTACCTCTGGCC

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FIGURE 5091

MRGPSLSWAIPATHPLGAAPLGNP GPGEPIWLPCVGGAEVRAQLGSFYSWESKSSLPSTPLSLIVSCGGSALTTH
AFPPIGGPIPSRFPAANKYLPSSARVQGSVGISIYPATDKATYLTWSAHSGRRERPK

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FIGURE 5092

AGATGATGATTATTCCCCACCTTCTAAGAGACAAAGACCAACGAGCCGCCACAGCCACCAGTCCCAGAACCCGCC
AATGCTGGGGAACGGAAAAATGAGGGAGTTCAACTCTGGCCCTCACAATCCAGTGGAGGAGACGCAACTCATCTGC
CTCTGTCCCTCTGGGACACGCTCGTGCCAGGTGCATCTGTGGACAGGGGCCATGCTCCTGGGCTTCCAAAGTTGG
AGAAAGCTGCCAGGCTCAGGTCTGAAGGCCAGAATTCTACAGTAAGTCCTACTGAGTCAAGGTGGGAGCAGGGTC
GGTAGCTTCCGAGGCTCTGCGGGAGAATCTGTTTCCTGGCCGTAGAGGTGGCCTGCACTCCTCAGCCTGTGCTGC
CCGTCTCGAATGACTGGAGTTTCTGCTTCTGTCACTACACCTCCCACCCTCTCCATCACCTGCTCTGCTCTTAC
AAGGATCCGAAGAAATGGAATCATCGTATCGCTGATCTACGTAAACAACTGAAGAATTGTCTGAAAGAAAATAT
GACATGAACCTTATGAATTCAATAGGTGAAGATTTACAACCTTGATAAATCAACTTTGTCAGCTCGAGCTGTAAAAG
CCAAAGGTCCGGTGATGATCCCATACCCTTTTTTCCAGTCTCATGTTGAAGATTTTTATGTAGAAGGCCTTCCCA
AAGGAATTTTTTTTTTTTTTTTTTTTTTGGAGATGGAGTTTTACTCTTATCGCCAGGCTGGGGTGCAATGGCAC
AACCTTGCTGGTCACTGCAACCTCTGCCTCCTGGGTTCAAGAAATTCTCCTGCCCTAGCCTCCCAAGTCACTGGG
ATTACAGGTGCCACCAACACACAGGCTAATTTTTGTATTTTTAGTGGAGATGCGGTTTACCATGTTGGCCGG
GCCAGTCTCGAACTCCTGACGTCAAGTGATCTTCCCGCCTCGACTCCTGATATCAAGTGATCTTCCCGCCTCGGC
CTCCCAGAGTGCTGAGATTACAGACGTGAACCCATGCCTGGCCAGGAATTTTGTTTTTTAGGAAGGCTTTCTACT
AATGGAATTCCTGGCCTTGAGAGGATGTTACTTTAGAAGGAAAGGATTTTTTGTATTAAAGCTGGACCTACC
ATGAAAGACTTCTGAATCCAGGAAGAGAACTGACTGGGCAACATGTTATTCAGAAACAGGACCTTGCCCTGTCA
CTCAGGATGGAGTTTCACTGGTCTATCATGGCTCATTATAGCCTCAAACCTCCAGGCTCAAGCAATCCTACCATG
TCAGCCTTCCCAGTAGCTGGAACCTACAGATACCGGGTCTCACACTGTCAACCCAGGCTGGAGTACAGTGGCACAAC
CTCTGCTCACTGCAGCCTCCACCTGCCAGGCTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGTGATTT
CCAGGAAGTGCGCTCACAATGACTCAAGCTGCCACATACTGTTGATTGTGAAATGCCAGTTGAAGCATATGTCTT
GCAAGCTTAGGGGTGCTACAAGTTGACCACTGCAGCAGTAAAGATGACTCTGAAGAACGGCGTGGGATGGTTCTT
TTCAAATGCACTTGAGCAGCGGTCTCCAACCAAGGGCCACAGAGCTGGAGCTGGATCTACCATGAAAGACTTGT
GAATCCAGGAAGAGAGACTGACTGGGCAACATGTTATTCAGAATCTCCCTGTGCCATCCAGGCTGGAGTGCAGTG
ATGTGATCATAGCTCACTATAGCTTTGGCCTTCTGAGATCAAGCAATCCTCCCATCTCAACCTCCCAAGTAGCTA
GGACTACACACGCATGCCACCCATGCCAGATCATTTTTGTAGAGTCAGAGTTTACCCTGGTGGCCAGGTTGGC
CATGTTGGCCAGATGGGGTCTTCTTTTGTGGCCAGGCTGGCCACAAATTCCTGGGCTCAAGTGATCTCCACC
TCGTCTTGTAGAGATGAGATTTAGTTATGTCTGTCAGGCTGATCTCAAACCTCCTGGGCTAAATCGATTGTCTCA
CCTCAGCCTCTCAAGTATGTTATGAAGTTATATGTTAGGAAGGGTCCCAGGAGGTAAACCCACACAGATGGGAT
TTGGGCATAGGTTTGGTTTCCCAGGGGGCAGTGCTGAGCTCTTTGCCAGTGGGAAATGGGATGCTGGTGATTTCC
AGTAGGTGACCTCACAGTCAAGCTACCACTTACTGTTGATTGTGACGAAATGCCAGCTGAGGCACATGCCT
TGGGAGCTAAGTGGTTGCTGCCCTTGACCACTGTGAAGACTGGTGTGGGAAGGTCGTTTTGGATGCACCTGAGC
AGGGTCCCCAACCCCTGAGCCATGGAGCCGCAAGGAGCCACACAGCAGGAGGTGGGAACATCCAGTTGCAGGAA
AACAAGCTTAACACGCCCACTGATTCTACATTATGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAGAATTTCT
CCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCATACCCTACGTACGGCAGCCT
CCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCA
GCTCCTGCCTCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTC

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FIGURE 5093

GCGACGGGACGCGCTGGGACCGGCGTCGGGGGTGCGGGGGACCATGCAGCGGAGGTGGGTCTTCGTGCTGCTCGA
CGTGCTGTGCTTACTGGTCGCCTCCCTGCCCTTCGCTATCCTGACGCTGGTGAACGCCCCGTACAAGCGAGGATT
TACTGCGGGGATGACTCCATCCGGTACCCCTACCGTCCAGATACCATCACCCACGGGCTCATGGCTGGGGTCAC
CATCACGGCCACCGTCATCCTTGCTCTCGGCCGGGGAAGCCTACCTGGTGTACACAGACCGGCTCTATTCTCGCTC
GGACTTCAACAACACTACGTGGCTGCTGTATACAAGGTGCTGGGGACCTTCCTGTTTGGGGCTGCCGTGAGCCAGTC
TCTGACAGACCTGGCCAAGTACATGATTGGGCGTCTGAGGCCCAACTTCCTAGCCGTCTGCGACCCCGACTGGAG
CCGGGTCAACTGCTCGGTCTATGTGCAGCTGGAGAAGGTGTGCAGGGGAAACCTGCTGATGTCACCGAGGCCAG
GTTGTCTTTTCTACTCGGGACACTCTTCCTTTGGGATGTACTGCATGGTGTTCCTGGCGCTGTATGTGCAGGCACG
ACTCTGTTGGAAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTTCTTCCTGGTGGCCTTTGCCCTCTACGTGGG
CTACCCCGCGTGTCTGATTACAAACACCACTGGAGCGATGTCTTGTGGCCTCCTGCAGGGGGCACTGGTGGC
TGCCCTCACTGTCTGCTACATCTCAGACTTCTTCAAAGCCCGACCCCAACAGCACTGTCTGAAGGAGGAGGAGCT
GGAACGGAAGCCCAGCCTGTCACTGACGTTGACCCTGGGCGAGGCTGACCACAACCACTATGGATACCCGCACTC
CTCCTCCTGAGGCCGGACCCCGCCAGGCAGGGAGCTGCTGTGAGTCCAGCTGATGCCACCCAGGTGGTCCCTC
CAGCCTGGTTAGGCACTGAGGGTTCTGGACGGGCTCCAGGAACCCTGGGCTGATGGGAGCAGTGAGCGGTTCCGC
TGCCCCCTGCCCTGCACTGGACCAGGAGTCTGGAGATGCCTGGGTAGCCCTCAGCATTGAGGGGGAACCTGTTT
CCGTGGTCCCCAAATATCCCCTTCTTTTTATGGGGTTAAGGAAGGGACCGAGAGATCAGATAGTTGCTGTTTTG
TAAATGTAATGTATATGTGGTTTTTAGTAAAATAGGGCACCTGTTTCACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5094

MQRRWVFVLLDVLCLLVASLPFAILTLVNAPYKRGFYCGDDSI RYPYREDTI THGLMAGVTITATVILVSAGEAY
LVYTDRLYSRSDFN NYVAAVYKVLGTFLFGAAVSQSLD LAKYMIGRLRPNFLAVCDPDWSRVNCSVYVQLEKVC
RGNPADVTEARLSFYSGHSSFGMYCMVFLALYVQARLCWKWARLLRPTVQFFLVAFALYVG YTRVSDYKHHWSDV
LVGLLQGALVAALTVCYISDFFKARPPQHCLKEEELERKPSLSLTTLT LGEADHNHYGYPHSSS

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FIGURE 5095

GCCGCGGGCGGGCGGGCAGCGGTTGGAGGTTGTAGGACCGGCGAGGAATAGGAATCATGCGGGCTGCGCTGTTT
GTGCTGCTGGGATTCGCGCTGCTGGGCACCCACGGAGCCTCCGGGGCTGCCGGCACAGTCTTCACTACCGTAGAA
GACCTTGGCTCCAAGATACTCCTCACCTGCTCCTTGAATGACAGCGCCACAGAGGTCACAGGGCACCCTGGCTG
AAGGGGGGCGTGGTGCTGAAGGAGGACGCGCTGCCCGGCCAGAAAACGGAGTTCAAGGTGGACTCCGACGACCAG
TGGGGAGAGTACTCCTGCGTCTTCTCCCGAGCCCATGGGCACGGCCAACATCCAGTCCACGGGCCTCCAGAG
GTGAAGGCTGTGAAGTCGTCAGAACACATCAACGAGGGGGAGACGGCCATGCTGGTCTGCAAGTCAGAGTCCGTG
CCACCTGTCACTGACTGGGCCTGGTACAAGATCACTGACTCTGAGGACAAGGCCCTCATGAACGGCTCCGAGAGC
AGGTTCTTCGTGAGTTCTTCGCGAGGGCCGGTCAGAGCTACACATTGAGAACCTGAACATGGAGGCCGACCCCGGC
CAGTACCGGTGCAACGGCACCAGCTCCAAGGGCTCCGACCAGGCCATCATCACGCTCCGCGTGCGCAGCCACCTG
GCCGCCCTCTGGCCCTTCTGGGCATCGTGGCTGAGGTGCTGGTGCTGGTCACCATCATCTTCATCTACGAGAAG
CGCCGGAAGCCCGAGGACGTCCTGGATGATGACGACGCCGGCTCTGCACCCCTGAAGAGCAGCGGGCAGCACCAG
AATGACAAAAGGCAAGAACGTCCGCCAGAGGAACCTCTTCTGAGGCAGGTGGCCCGAGGACGCTCCCTGCTCCACG
TCTGCGCCGCCCGCGGAGTCCACTCCAGTGCTTGCAAGATTCCAAGTTCTCACCTCTTAAAGAAAACCCACCCC
GTAGATTCCCATCATACACTTCCTTCTTTTTTAAAAAAGTTGGGTTTTCTCCATTCAAGGATTCTGTTCTTAGGT
TTTTTCTCTCTGAAGTGTTTCACGAGAGCCCGGGAGCTGCTGCCCTGCGGCCCCGTCTGTGGCTTTCAGCCTCT
GGGTCTGAGTCATGGCCGGGTGGGCGGCACAGCCTTCTCCACTGGCCGGAGTCAGTGCCAGGTCTTGGCCTTTG
TGGAAGTCACAGGTCACACGAGGGGCCCCGTGTCTGCTGTCTGAAGCCAATGCTGTCTGGTTGCGCCATTTT
TGTGCTTTTATGTTTAAATTTTATGAGGGCCACGGGTCTGTGTTTCACTCAGCCTCAGGGACGACTCTGACCTCTT
GGCCACAGAGGACTCACTTGGCCACACCGAGGGCGACCCCGTACAGCCTCAAGTCACTCCCAAGCCCCCTCCTT
GTCTGTGCATCCGGGGGCGAGCTCTGGAGGGGGTTTGCTGGGGAACCTGGCGCCATCGCCGGGACTCCAGAACCGCA
GAAGCCTCCCCAGCTCACCCCTGGAGGACGGCCGGCTCTCTATAGCACAGGGGCTCACGTGGGAACCCCCCTCCC
ACCCACCGCCACAATAAAGATCGCCCCCACCTCCACCCTC

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FIGURE 5096

MAAALFVLLGFALLGTHGASGAAGTVFTTVEDLGSKILLTCSLNDSEVTGHRWLKGGVVLKEDALPGQKTEFK
VDSDDQWGEYSCVFLPEPMGTANIQLHGPPRVKAVKSSEHINEGETAMLVCKSESVPPVTDWAWYKITDSEDKAL
MNGSESRRFFVSSSQGRSELHIENLNMEADPGQYRCNGTSSKGSQAIITLRVRSHLAALWPFLGIVAEVLVLVTI
IFIYEKRRKPEDVLDDDDAGSAPLKSSGQHQNKGKNVRQRNSS

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FIGURE 5097

CGGGCGGCGGCGGCAGCGGTTGGAGGTTGTAGGACCGGCGAGGAATAGGAATCATGGCGGCTGCGCTGTTTCGTGC
TGCTGGGATTTCGCGCTGCTGGGCACCCACGGAGCCTCCGGGGCTGCCGGCACAGTCTTCACTACCGTAGAAGACC
TTGGCTCCAAGATACTCCTCACCTGCTCCTTGAATGACAGCGCCACAGAGGTCACAGGGCACCGCTGGCTGAAGG
GGGGCGTGGTGTGAAGGAGGACGCGCTGCCCCGCCAGAAAACGGAGTTCAAGGTGGACTCCGACGACCAGTGGG
GAGAGTACTCCTGCGTCTTCTCCCCGAGCCCATGGGCACGGCCAACATCCAGCTCCACGGGCCTCCAGAGTGA
AGGCTGTGAAGTCGTCAGAACACATCAACGAGGGGGAGACGGCCATGCTGGTCTGCAAGTCAGAGTCCGTGCCAC
CTGTCACTGACTGGGCCTGGTACAAGATCACTGACTCTGAGGACAAGGCCCTCATGAACGGCTCCGAGAGCAGGT
TCTTCGTGAGTTCTTCGCAGGGCCGGTCAGAGCTACACATTGAGAACCCTGAACATGGAGGGCCGACCCCGGCCAGT
ACCGGTGCAACGGCACCCAGCTCCAAGGGCTCCGACCAGGCCATCATCACGCTCCGCGTGCAGCCACCTGGCCG
CCCTCTGGCCCTTCTTGGGCATCGTGGCTGAGGTGCTGGTGTCTGGTCACCATCATCTTCATCTACGAGAAGCGCC
GGAAGCCCCGAGGACGTCTGGATGATGACGACGCCGGCTCTGCACCCCTGAAGAGCAGCGGGCAGCACCAGAATG
ACAAAGGCAAGAACGTCCGCCAGAGGAACCTCTTCTGAGGTGGCCCCGAGGACGCTCCCTGCTCCACGTCTGCGCC
GCCGCCGGAGTCCACTCCAGTGCTTGCAAGATTCCAAGTTCTCACCTCTTAAAGAAAACCCACCCCGTAGATTCTC
CCATCATACACTTCCTTCTTTTTTAAAAAAGTTGGGTTTTCTCCATTTCAGGATTCTGTTCTTAGGTTTTTTTCC
TTCTGAAGTGTTTCACGAGAGCCCCGGGAGCTGCTGCCCTGCGGCCCCGTCTGTGGCTTTTCAAGCTCTGGGTCTGA
GTCATGGCCGGGTGGGCGGCACAGCCTTCTCCACTGGCCGGAGTCAGTGCCAGGTCCTTGCCCTTTGTGGAAAGT
CACAGGTACACGAGGGGGCCCCGTGCTCCTGCTGTCTGAAGCCAATGCTGTCTGGTTGCGCCATTTTTGTGCTTT
TATGTTTAATTTTATGAGGGCCACGGGTCTGTGTTGACTCAGCCTCAGGGACGACTCTGACCTCTTGGCCACAG
AGGACTCACTTGCCACACCGAGGGCGACCCCGTCACAGCCTCAAGTCACTCCCAAGCCCCCTCCTTGTCTGTGC
ATCCGGGGGCAGCTCTGGAGGGGGTTTGTGTTGGGAACTGGCGCCATCGCCGGGACTCCAGAACCGCAGAAGCCTC
CCCAGCTCACCCCTGGAGGACGGCCGGCTCTCTATAGCACCAGGGCTCACGTGGGAACCCCCCTCCACCCACCG
CCACAATAAAGATCGCCCCACCTCCACCCTC

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FIGURE 5098

GGCACGAGGATACCTCCTCATCAACTCTGACATAGTGTGCGAACAGGACATCTACGAGTGGACTAAGATCAATGG
CCGGCGGCGGGTGCCGCGCGGGGGCGGGCGGCGGAGTAGGTGGCGGCGGCCATGGCCGAGGCGTCGCCGCAT
CCCGGACGGTACTTCTGCCACTGCTGCTCCGTGGAGATCGTCCCGCGCCTGCCGGATTATATCTGTCCAAGATGC
GAGTCTGGTTTTATCGAGGAGCTTCCGGAAGAGACCAGGAGCACAGAAAATGGTTCTGCCCCCTCCACAGCTCCC
ACAGACCAGAGCCGGCCACCGCTGGAGCACGTGGACCAGCACCTGTTACGCTGCCGAGGGCTACGGACAGTTT
GCTTTCGGCATCTTCGATGACAGCTTCGAGATCCCCACGTTCCCTCCTGGGGCGCAGGCTGACGACGGCAGGGAC
CCTGAGAGCCGGCGGGAGAGAGACCATCCGTCCCGGCACCGGTACGGCGCCCGACAGCCCCGCGCCCGCCTCACC
ACGCGGCGGGCCACCGGCCGGCACGAAGGCGTCCCCACGCTGGAAGGGATCATCCAGCAGCTCGTCAACGGCATC
ATCACGCCCCGCCACCATCCCCAGCCTGGGCCCCCTGGGGAGTCCTGCACTCAAACCCCTATGGACTACGCCTGGGGG
GCCAACGGCCTGGATGCCATCATCACACAGCTCCTCAATCAGTTTGAAAAACACAGGCCCCCACCAGGAGATAAA
GAGAAAAATCCAGGCCCTCCCCACCGTCCCCGTCACTGAGGAGCACGTAGGCTCCGGGCTCGAGTGCCCTGTGTGC
AAGGACGACTACGCGCTGGGTGAGCGTGTGCGGCAGCTGCCCTGCAACCACCTGTTCCACGACGGCTGCATCGTG
CCCTGGCTGGAGCAGCACGACAGCTGCCCCGTCTGCCGAAAAAGCCTCACGGGACAGAACACGGCCACGAACCCC
CCTGGCCTCACTGGGGTGAGCTTCTCCTCCTCGTCGTCATCGTCCTCCTCCAGCTCGCCAGCAACGAGAACGCC
ACAAGCAACTCGTGAGCCCCACGTCGGCCGTCGGGAAAGCACGGGGCCCTTTCCACCCACCCTCAGCCAGCGCCAC
ACGGCACCCACAGACTGGGTGCCCCGGCGGCCACGCTTGGCTGGTCAGCGCTGCAGGTCCCGCCTGTTCCAGG
GCAGGACCCGGGCCCCGGCCACCAGCCCCCTGGCTTGGGAAGGCGTGGGCCACATGGTCCCCTCTGGGGCGTCCC
CAGCCTCCCCGTCTCTGTCTAACCTCACCCCTCTAAACGTTTACGCGGTGGAAGATTTTATAATTTTAAATTAT
TACTGCTTTGAAATAAACGGACGTTTGAGCTCACGTGGCGGCCATGCATGGTTTGTGGCGGAAGACGGGGCCAG
CGGCTCCCCCAGCGCTGAAGCACGGGGTTCAGCGGCTCCCCCAGTGCTGCAGGTGCCGCCAGGACGGGGCCACGTG
GGCCCCCAGCCTCCCCCTCGGCCGCTCCACGACCCGGAGTAGGGGGGCTCGGGACCATGAGGATGACCAGCAAA
ATTCAAGAACAAAATGCTCCAACAGACTTTTTTAAAGGAAAAAATATGTGTATCTTGAAAGCTATTTAAATAC
ACTACTTACAAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5099

MAEASPHPGRYFCHCCSVEIVRLPDYICPRCESGFIEELPEETRSTENGSA
PSTAPTQSRPPLEHVDQHLFTL
PQGYGQFAFGIFDDSF EIPTFPFGAQADDGRDPESRRERDHP
SRHRYGARQPRARLTTRRATGRHEGVPTLEGII
QQLVNGIITPATIPSLGPWGLHSNPM DYAWGANGLDAIITQLLNQFENTG
PPPADKEKIQALPTVPVTEEHVGS
GLECPVCKDDYALGERVRQLPCNHLFHDGCIVPWLEQHDSCPVCRKSLTG
QNTATNPPGLTGVSFSSSSSSSSSS
SPSNENATSNS

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FIGURE 5100

CTTGTGAGTCTATAACTCGGAGCCGTTGGGTGCGTTCCTGCTATTCCGGCGCCTCCACTCCGTCCCCCGCGGGTC
TGCTCTGTGTGCC**ATGG**ACGGCATTGTCCCAGATATAGCCGTTGGTACAAAGCGGGGATCTGACGAGCTTTTCTC
TACTTGTGTCTACTAACGGACCGTTTATCATGAGCAGCAACTCGGCTTCTGCAGCAAACGGAAATGACAGCAAGAA
GTTCAAAGGTGACAGCCGAAGTGCAGGCGTCCCCTCTAGAGTGATCCACATCCGGAAGCTCCCCATCGACGTCAC
GGAGGGGGAAGTCATCTCCCTGGGGCTGCCCTTTGGGAAGGTCACCAACCTCCTGATGCTGAAGGGGAAAAACCA
GGCCTTCATCGAGATGAACACGGAGGAGGCTGCCAACACCATGGTGAATACTACTACACCTCGGTGACCCCTGTGCT
GCGCGGCCAGCCCATCTACATCCAGTTCTCCAACCACAAGGAGCTGAAGACCGACAGCTCTCCCAACCAGGCGCG
GGCCCAGGCGGCCCTGCAGGCGGTGAACCTCGGTCCAGTCGGGGAACCTGGCCTTGGCTGCCTCGGCGGCGGCCGT
GGACGCAGGGATGGCGATGGCCGGGCGAGAGCCCCGTGCTCAGGATCATCGTGGAGAACCTCTTCTACCCCTGTGAC
CCTGGATGTGCTGCACCAGATTTTCTCCAAGTTCGGCACAGTGTTGAAGATCATCACCTTCACCAAGAACAACCA
GTTCCAGGCCCTGCTGCAGTATGCGGACCCCGTGAGCGCCAGCACGCCAAGCTGTGCTGGACGGGCAGAACAT
CTACAACGCCTGCTGCACGCTGCGCATCGACTTTTCCAAGCTCACAGCCTCAACGTCAAGTACAACAATGACAA
GAGCCGTGACTACACACGCCCCAGACCTGCCTTCCGGGGACAGCCAGCCCTCGCTGGACAGACCATGGCCGCGGC
CTTCGCCTCTCCGTATGACAGAGCTGGTTTCCCTCCACCTTTGCCATTCTCTCAAGCTGCAGGCCTTTCCGTTCC
GAACGTCCACGGCGCCCTGGCCCCCTGGCCATCCCTCGGCGGCGGCGGCAGCTGCGGCGGCAGGTTCGGATCGC
CATCCCGGCCCTGGCGGGGGCAGGAAATTCTGTATTGCTGGTCAGCAACCTCAACCCAGAGAGAGTCAACCCCCA
AAGCCTCTTTATTCTTTTCGGCGTCTACGGTGACGTGCAGCGCGTGAAGATCCTGTTCAATAAGAAGGAGAACGC
CCTAGTGCAGATGGCGGACGGCAACCAGGCCAGCTGGCCATGAGCCACCTGAACGGGCACAAGCTGCACGGGAA
GCCCATCCGCATCACGCTCTCGAAGCACCAAGCTGCAGCTGCCCCGCGAGGGCCAGGAGGACCAGGGCCTGAC
CAAGGACTACGGCAACTCACCCCTGCACCGCTTCAAGAAGCCGGGCTCCAAGAACTTCCAGAACATATTCCCGCC
CTCGGCCACGCTGCACCTCTCCAACATCCCGCCCTCAGTCTCCGAGGAGGATCTCAAGGTCTGTTTTCAGCAA
TGGGGGCGTCTGTCAAAGGATTCAAGTTCTTCCAGAAGGACCGCAAGATGGCACTGATCCAGATGGGCTCCGTGGA
GGAGGCGGTCCAGGCCCTCATTGACCTGCACAACCACGACCTCGGGGAGAACCACCACCTGCGGGTCTCCTTCTC
CAAGTCCACCATCT**AG**GGGGCACAGGCCCCACGGCCGGGGCCCCCTGGCGACAACCTTCCATCATTCCAGAGAAAAG
CCACTTTAAAAACAGCTGAAGTGACCTTAGCAGACCAGAGATTTTATTTTTTAAAGAGAAATCAGTTTACCTGT
TTTTAAAAAATTAAATCTAGTTCACCTTGCTCACCTGCGGTGACAGGGACAGCTCAGGCTCTTGGTGACTGTG
GCAGCGGGAGTTCCCGGCCCTCCACACCCGGGGCCAGACCCTCGGGGCCATGCCTTGGTGGGGCCTGTGTGGGC
GTGGGGCCTGCAGGTGGGCGCCCCGACCACGACTTGCTTCCCTGTGCTTAAAAAACCTGCCTTCTGACGCCA
CACACCCACCCGGGGTGTCTTGGGGACCCAAGGGGTGGGGGGGTACACCAGAGAGAGGCAGGGGGCCTGGCCGG
CTCCTGCAGGATCATGCAGCTGGGGCGCGGCGGCGCGCTGCGACACCCCAACCCAGCCCTCTAATCAAGTCA
CGTGATTCTCCCTTACCCCGCCCCAGGGCCTTCCCTTCTGCCCCAGGCGGGCTCCCCGCTGCTCCAGCTGCG
GAGCTGGTGCACATAATCTCTGTATTATATACTTTGCAGTTGCAGACGTCTGTGCCTAGCAATATTTCAGTTGA
CCAAATATTCTAATCTTTTTTCAATTATATGCAAAAGAAATAGTTTTTAAGTAACTTTTTATAGCAAGATGATACA
ATGGTATGAGTGTAATCTAAACTTCCTTGTGGTATTACCTTGTATGCTGTTACTTTTTATTTTATCCTTGTAATT
AAGTCACAGGCAGGACCCAGTTTCCAGAGAGCAGGCGGGGCCGCCAGTGGGTGAGGCACAGGGAGCCCCGGTCC
TATCTTAGAGCCCCTGAGCTTCAGGGAAGGGCGGGCGTGTGCGCGCCTCTGGCATCGCCTCCGGTTGCCTTACA
CCACGCCTTCACCTGCAGTCGCCTAGAAAACCTGCTCTCAAACCTCAGGGTTTTTTCTTCTTCAAATTTTGGAC
CAAAGTCTCATTCTGTGTTTTGCTGCTCTGATGCTGGGACCCGGAAGGCGGGCGCTCCTCCTGTCTTCTCTG
TGCTCTTTCTACCGCCCCCGCTCCTGTCCCGGGGGCTCTCCTAGGATCCCCTTTCCGTAAAAGCGTGTAAACAAG
GGTGTAATATTTTATAATTTTTTATACCTGTTGTGAGACCCGAGGGGCGGCGCGCGGTTTTTTATGGTGACACA
AATGTATATTTTGCTAACAGCAATTCCAGGCTCAGTATTGTGACCGCGAGCCACAGGGGACCCACGCACATTC
CGTTGCCTTACCCGATGGCTTGTGACGCGGAGAGAACCATTAAACCGTTTGAAGAACTCCTCCCTTGTCTAGC
CCTGTGTTTCGCTGTGGACGCTGTAGAGGCAGGTTGGCCAGTCTGTACCTGGACTTCGAATAAATCTTCTGTATCC
TCGCTCCGTTCCGCCTTAAA

A

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FIGURE 5101

MDGIVEDI AVGTRKGSDEL FSTCVTNGPFIMSSNSASAANGNDSKKFKGDSRSAGVPSRVIHIRKLPIDVTEGEV
ISLGLPFGKVTNLLMLKGKNQAFIEMNTEEAANTMVNYTTSVTPVLRGQPIYYIQFSNHKELKTDSSPNQARAQAA
LQAVNSVQSGNLALAASAAAVDAGMAMAGQSPVLRIIVENLFYPVTL DVLHQIFSKEGTVLKIITFTKNNQFQAL
LQYADPVSAQHAKLSLDGQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDYTRPDLPSGDSQPSLDQTMAAAFASP
YAGAGFPPTFAIPQAAGLSVPNVHGALAPLAIP SAAAAAAAAGRIAIPGLAGAGNSVLLVSNLNPERVTPQSLFI
LFGVYGDVQRVKILFNKKENALVQMADGNQAQLAMSHLNGHKLHGKPIRITLSKHQNVQLPREGQEDQGLTKDYG
NSPLHRFKKPGSKNFQNIFFPSATLHLSNIPPSVSEEDLKVLFSNNGGVVKGFKFFQKDRKMALIQMGSVEEAVQ
ALIDLHNHDLGENHHLRVFSKSTI

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FIGURE 5102

CTTGTGAGTCTATAACTCGGAGCGCTTGGGTCGGTTCCTGCTATTCCGGCGCCTCCACTCCGTCCCCCGCGGGTC
TGCTCTGTGTGCCATGGACGGCATTGTCCCAGATATAGCCGTTGGTACAAAGCGGGGATCTGACGAGCTTTTCTC
TACTTGTGTCACTAACGGACCGTTTATCATGAGCAGCAACTCGGCTTCTGCAGCAAACGGAAATGACAGCAAGAA
GTTCAAAGGTGACAGCCGAAGTGCAGGCGTCCCCTCTAGAGTGATCCACATCCGGAAGCTCCCCATCGACGTCAC
GGAGGGGGAAGTCATCTCCCTGGGGCTGCCCTTTGGGAAGGTACCAACCTCCTGATGCTGAAGGGGAAAAACCA
GGCCTTTCATCGAGATGAACACGGAGGAGGCTGCCAACACCATGGTGAAGTACTACACCTCGGTGACCCCTGTGCT
GCGCGGCCAGCCCATCTACATCCAGTTCTCCAACCACAAGGAGCTGAAGACCGACAGCTCTCCCAACCAGGCGCG
GGCCCAGGCGGCCCTGCAGGCGGTGAACTCGGTCCAGTCCGGGAACCTGGCCTTGGCTGCCTCGGCGGCGGGCCGT
GGACGCAGGGATGGCGATGGCCGGGCAGAGCCCCGTGCTCAGGATCATCGTGGAGAACCTCTTCTACCCCTGTGAC
CCTGGATGTGCTGCACCAGATTTTCTCCAAGTTCGGGCACAGTGTTGAAGATCATCACCTTCACCAAGAACAACCA
GTTCCAGGCCCTGCTGCAGTATGCGGACCCCGTGAGCGCCAGCACGCCAAGCTGTGCTGGACGGGCAGAACAT
CTACAACGCCTGCTGCACGCTGCGCATCGACTTTTCCAAGCTCACCAGCCTCAACGTCAAGTACAACAATGACAA
GAGCCGTGACTACACACGCCCCAGACCTGCCTTCCGGGGACAGCCAGCCCTCGCTGGACCAGACCATGGCCGCGGC
CTTCGGTGCACCTGGTATAATCTCAGCCTCTCCGTATGCAGGAGCTGGTTTCCCTCCCACCTTTGCCATTCTCTCA
AGCTGCAGGCCTTTCCGTTCCGAACGTCCACGGCGCCCTGGCCCCCTGGCCATCCCTCGGCGGCGGCGGCAGC
TGCGGCGGCAGGTTCGGATCGCCATCCCGGGCCTGGCGGGGGCAGGAAATTCTGTATTGCTGGTCAGCAACCTCAA
CCCAGAGAGAGTACACCCCCAAAGCCTCTTTATTCTTTTCGGCGTCTACGGTGACGTGCAGCGCGTGAAGATCCT
GTTCAATAAGAAGGAGAACGCCCTAGTGCAGATGGCGGACGGCAACCAGGCCAGCTGGCCATGAGCCACCTGAA
CGGGCACAAGCTGCACGGGAAGCCCATCCGCATCACGCTCTCGAAGCACCAGAACGTGCAGCTGCCCCGCGAGGG
CCAGGAGGACCAGGGCCTGACCAAGGACTACGGCAACTCACCCCTGCACCGCTTCAAGAAGCCGGGCTCCAAGAA
CTTCAGAACATATTCCCGCCCTCGGCCACGCTGCACCTCTCCAACATCCCGCCCTCAGTCTCCGAGGAGGATCT
CAAGGTCTGTGTTTTCCAGCAATGGGGGCGTTCGTCAAAGGATTCAAGTTCTTCCAGAAGGACCGCAAGATGGCACT
GATCCAGATGGGCTCCGTGGAGGAGGCGGTCCAGGCCCTCATTGACCTGCACAACCACGACCTCGGGGAGAACCA
CCACCTGCGGGTCTCCTTCTCCAAGTCCACCATCTAGGGGCACAGGCCCCACGGCCGGGCCCCCTGGCGACAAC
TTCCATCATTCCAGAGAAAAGCCACTTTAAAAACAGCTGAAGTGACCTTAGCAGACCAGAGATTTTATTTTTTTA
AAGAGAAATCAGTTTACCTGTTTTTAAAAAAATTAAATCTAGTTTACCTTGCTCACCCTGCGGTGACAGGGACAG
CTCAGGCTCTTGGTGACTGTGGCAGCGGGAGTTCCCGGCCCTCCACACCCGGGGCCAGACCCTCGGGGCCATGCC
TTGGTGGGGCCTGTGTGCGGCGTGGGGCCTGCAGGTGGGCGCCCCGACCACGACTTGGCTTCTTGTGCTTAA
AAACCTGCCTTCTGTCAGCCACACACCCACCCGGGGTGTCTGGGGACCCAAGGGGTGGGGGGGTACACCAGAG
AGAGGCAGGGGGCCTGGCCGGCTCCTGCAGGATCATGCAGCTGGGGCGCGGCGGCCGCGGTGCGACACCCCAAC
CCCAGCCCTCTAATCAAGTCACGTGATTCTCCCTTCACCCCGCCCCAGGGCCTTCCCTTCTGCCCCAGGCGGG
CTCCCCGCTGCTCCAGCTGCGGAGCTGGTCGACATAATCTCTGTATTATATACTTTGCAGTTGCAGACGTCTGTG
CCTAGCAATATTTCCAGTTGACCAAATATTCTAATCTTTTTTCAATTTATATGCAAAAAGAAATAGTTTTAAGTAAC
TTTTTATAGCAAGATGATACAATGGTATGAGTGTAATCTAAACTTCTTGTGGTATTACCTTGTATGCTGTTACT
TTTATTTTATTCTTGTAAATTAAGTCACAGGCAGGACCCAGTTTCCAGAGAGCAGGCGGGGCCGCCAGTGGGT
AGGCACAGGGAGCCCCGGTCTATCTTAGAGCCCTGAGCTTCAGGGAAGGGGCGGGCGTGTGCGCCCTCTGGC
ATCGCTCCGGTTGCCTTACACCACGCCTTACCTGCAGTCGCCTAGAAAACCTTGCTCTCAAACCTCAGGGTTTT
TTCTTCTTCAAATTTTGGACCAAAGTCTCATTTCTGTGTTTTTGCCTGCCTCTGATGCTGGGACCCGGAAGGCGG
GCGCTCCTCCTGTCTTCTGTGCTCTTTCTACCGCCCCCGCTCCTGTCCCCGGGGGCTCTCCTAGGATCCCCCT
TCCGTAAGAGCGTGTAACAAGGGTGAAATATTTATAATTTTTTATACCTGTTGTGAGACCCGAGGGGCGGCGGC
GCGGTTTTTTATGGTGACACAAATGTATATTTTGCTAACAGCAATTCCAGGCTCAGTATTGTGACCGCGGAGCCA
CAGGGGACCCACGCACATTCCGTTCGCTTACCCGATGGCTTGTGAACGCGGAGAGAACCATTAAACCGTTTGA
GAACTCCTCCCTTGTCTAGCCCTGTGTTGCTGTGGACGCTGTAGAGGCAGGTTGGCCAGTCTGTACCTGGACT
TCGAATAAATCTTCTGTATCTCGCTCCGTTCCGCCTTAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 5103

MDGIVPDIAVGTKRGSDELFSTCVTNGPFIMSSNSASAANGNDSKKFKGDSRSAGVPSRVIHIRKLPIDVTEGEV
ISLGLPFGKVNTNLLMLKGKNQAFIEMNTEEAANTMVNYTTSVTPVLRGQPIYIQFSNHKELKTDSSPNQARAQAA
LQAVNSVQSGNLALAASAAAVDAGMAMAGQSPVLRIIVENLFYPVTLDDLHQLFSKFGTVLKIITFTKNNQFQAL
LQYADPVSAQHAKLSLDGQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDYTRPDLP SGDSQPSLDQTMAAAF GAP
GIISASPYAGAGFPPTFAIPQAAGLSVPNVHGALAPLAIP SAAAAAAGRIAIPGLAGAGNSVLLVSNLNP ERV
TPQSLFIFLFGVYGDVQRVKILFNKKENALVQ MADGNQAQLAMSHLNHKLHGKPIRITLSKHQNVQLPREGQEDQ
GLTKDYGNSPLHRFKKPGSKNFQNI FPPSATLHLSNIPPSVSEEDLKVL FSSNGGVVKGF KFFQKDRKMALIQMG
SVEEAVQALIDLHNHDLGENHHLRVSF SKSTI

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FIGURE 5105

MKLQAVMETLLQRQQRARQELEARQQLPPDPPAAPPGRARAAPDEDREPESARMQRAQMAALAAMRAAAAGLGHP
ASPGGSEDGPPGSEEEEDAAREGTPGSPGRGREGPGEEHFEDMASDEDMKPKWEEEEEMEEDLGEDEEEEEEDYEDE
EEEEDEEGLGPPGPASLGT TALFPRKAQPPQAFRGDGVPRVLGGQERPGPGPAHPGGAHVAPQLQPPDHGDWTY
EEQFKQLYELDGDPKRKEFLDDLFSFMQKRGTPVNRIPIMAKQVLDLFMLYVLVTEKGGLVEVINKKLWREITKG
LNLPTSITSAAFTLRTQYMKYLYPYECEKRGLSNPNELQAAIDSNRREGRRQSFGGSLFAYSPGGAHGMLSSPKL
PVSSLGLAASTNGSSITPAPKIKKEEDSAIPITVPGRLPVSLAGHPVVAAQAAAVQAAAAQA AVAAQAAALEQLR
EKLESAEPPEKKMALVADEQQRLMQRALQQNFLAMAAQLPMSIRINSQASESRQDSAVNLTGTNGSNSISMSVEI
NGIMYTGVLFAQPPAPTPTSAPNKG GGGGGGSSSNAGGRGGNTGTSGGQAGPAGLSTPSTSTSNNSLP

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FIGURE 5106

GGCAAGATGGCGGCGCCCATGGAGGTGGCCGTGTGTACGGACTCGGCGGCCCCGATGTGGAGCTGCATCGTGTGG
GAACTTCACTCGGGCGCCAACCTGCTCACCTACCGCGGCGGCCAGGCGGGACCCCGCGGCCCTGGCGCTGCTCAAT
GGCGAGTATCTGCTGGCGGCGCAGCTGGGCAAGAATTACATCAGCGCCTGGGAGCTCCAGCGGAAGGACCAGCTC
CAGCAGAAGATCATGTGCCCCGGGCCTGTACCTGTCTGACTGCATCACCCAATGGTCTCTACGTCCTGGCAGGA
GTTGCAGAAAGCATCCACCTGTGGGAGGTCTCCACCGGGAACCTTCTGGTCATCCTGAGTCGACACTACCAGGAC
GTCTCCTGCCTTCAGTTCACAGGGGACAGCAGCCACTTCATCTCAGGGGGCAAGGACTGCCTGGTGCTGGTTTGG
AGCCTCTGCAGCGTGCTGCAGGCCGACCCCTCCAGGATTCCGGCGCCCAGGCACGTCTGGTCTCACCACGCGCTC
CCCATCACGGACCTGCACTGCGGCTTTGGGGGCCCCCTGGCCCCGGGTGGCCACCTCCTCACTGGACCAGACGGTG
AAGCTATGGGAGGTCTCCTCGGGGGAGCTGCTGCTCTCCGTCTCTTTGACGTGTCCATCATGGCAGTGACCATG
GACCTGGCTGAGCACCATATGTTCTGCGGGGGCAGTGAGGGCTCCATCTTCCAGGTGACCTCTTCACCTGGCCC
GGACAGAGGGGAGAGGAGCTTCCACCCAGAGCAGGACGCCGGGAAGGTCTTCAAAGGGCACAGGAACCAGGTGACT
TGCCTGTCAGTGTCCACTGACGGCAGCGTGCTGCTCTCAGGCTCCCACGACGAGACCGTGCGCCTCTGGGACGTG
CAGAGCAAGCAGTGATCCGGACGGTGGCCCTCAAAGGCCAGTCACCAATGCCGCCATCCTGCTGGCGCCCGTC
AGCATGCTGAGCTCAGACTTCAGGCCCAGCCTGCCGCTGCCCCACTTCAACAAGCACCTGCTGGGCGCCGAGCAC
GGGGACGAGCCGCGCCACGGGGGCCTCACTCTGCGCCTGGGCCTCCACCAGCAGGGCTCGGAGCCCAGCTACCTG
GACCGCACGGAGCAGCTGCAGGCCGTCTGTGAGCACCATGGAGAAGAGCGTGCTCGGCGGCCAGGACCAGCTG
CGCGTCCGTGTGACGGAGCTGGAGGACGAGGTGCGCAACCTGCGCAAGATCAATCGGGACCTGTTGACTTCTCC
ACGCGCTTCATCACGCGGCCGGCCAAGTGAGGGCCGGAGACCCCGGCCCGAGGCGCCCAGGCCTGAGCCCCATGC
CTCCCAGCAACCAGGGCCCCGCGGTGTGGCCCCCACCAGCCCAGGCCTGGACTCTCCTCAGTTCTGTGTCGTGTT
CGGGTTTTTCTCTGTGACTGGGCCGTCTTGGTGTCTCGTGGCACGCGTCACAGTGGTGCTAGTCTGTTTTTAAC
AAAAGAGGATGAAAAGCC

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FIGURE 5107

MAAPMEVAVCTDSAAPMWSCIVWELHSGANLLTYRGGQAGPRGLALLNGEYLLAAQLGKNYISAWELQRKDQLQQ
KIMCPGPVTCLTASPNGLYVLAVAGVAESIHLWEVSTGNLLVILSRHYQDVSCLOFTGDSSHFISGGKDCLVLVWSL
CSVLQADPSRIPAPRHVWSHHALPITDLHCGFGGGLARVATSSLDQTVKLWEVSSGELLSSVLFVDSIMAVTMDL
AEHHMFCGGSEGSIFQVDLFTWPGQRERSFHPEQDAGKVFKGHRNQVTCLSVSTDGSLVLLSGSHDETURLWDVQS
KQCIRTVALKGPVTNAAILLAPVSMSSDFRPSLPLPHFNKHLGAEHGDEPRHGGLTLRLGLHQQGSEPSYLDL
TEQLQAVLCSTMEKSVLGGQDQLRVRVTELEDEVRLNRKINRDLDFDFSTRFITRPAK

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FIGURE 5108

ATGAGCTCCACGCAGTTCAACAAGGGCCCCCTCGTACGGGCTGTCGGCCGAGGTCAAGAACCGGGCTCCCGCGAAT
CTTGGGGAGCACCCAGGTCTGAGATCTGGGGGACGAGTGACCCATTCCCCCCCCAACATCTAGGGGTAGTTGGG
TCTGACTTCGTCCCCCTCGCCATGGCCCCAGGACCCCCACGTGTCCTTACAGCTGACTTCTGCAGGGGAAACTGCC
TCTGCACGCTCTGAGGGCACCGGCCCTGCCAGCCCCAACAGCCACCTGCCCGGCGGCACTCCAGGGCCGGCAGAC
TGGAGGGAGAATTCTGCTTCCCCGCTGGGGCCATCTGCACCCTGCATTTCATAGAGCCCCCGTGCAGTGGGGTGG
GCACCCTGCCGCACCCTGCATACAGCCGGCTAA

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FIGURE 5109

ACCAGCTCCTGTCCAAATATGACCCCCAGAAGGAGGCAGAGCTCCGCACCTGGATCGAGGGACTCACCGGCCTCT
CCATCGGCCCCGACTTCCAGAAGGGCCTGAAGGATGGAATATCTTATGCACACTCATGAACAAGCTACAGCCGG
GCTCCGTCCCCAAGATCAACCGCTCCATGCAGAACTGGCACCAGCTAGAAAACCTGTCCAACCTCATCAAGGCCA
TGGTCAGCTACGGCATGAACCCTGTGGACCTGTTTCGAGGCCAACGACCTGTTTGAGAGTGGGAACATGACGCAGG
TGCAGGTGTCTCTTCTCGCCCTGGCGGGGAAGGCCAAGACTAAGGGGCTGCAGAGCGGGGTGGACATTGGCGTCA
AGTACTCGGAGAAGCAGGAGCGGAATTTTCGACGATGCCACCATGAAGGCTGGCCAGTGCCTCATCGGGCTGCAGA
TGGGCACCAACAAATGCGCCAGCCAGTCGGGCATGACTGCCTACGGCACGAGAAGGCATCTCTATGACCCCCAAGA
ACCATATCCTGCCCCCATGGACCACTCGACCATCAGCCTCCAGATGGGCACGAACAAGTGTGCCAGCCAGGTGG
GCATGACGGCTCCCGGGACCCGGCGGCACATCTATGATACCAAGCTGGGAACCGACAAGTGTGACAACCTCCTCCA
TGTCCCTGCAGATGGGCTACACGCAGGGCGCCAACCAGAGCGGCCAGGTCTTCGGCCTGGGCCGGCAGATATATG
ACCCCAAGTACTGCCCCGAAGGCACAGTGGCCGATGGGGCTCCCTCGGGCACCGGCGACTGCCCCGACCCGGGGG
AGGTCCCTGAATATCCCCCTTACTACCAGGAGGAGGCCGGCTACTGAGGCTCCCAGCACGCTCTCTCCCCACATC
GTCTGCCCATCTGGGTTTTTGGGTTTTTCTGTGTTTTTCATCTTTTTTTTTTTTTTCTTAACCCGTTCACTGCTGC
CAGTCAACCAAGGGTCTGTGAGTGTGACGCTGGGATCAGGCAGCAGAGCTTTTTTCCCCTTTGCCTTGATCCTTC
GCAAGGCTGAGCCACTGGGCTGTGGGGGAAGGGGTCAAGGCCATATCCAATACGTGTAGGGCGAGGGTCCCTGC
TGGCACATTAGGCTGTGCTGGGAAGAAGAGACCTGGGCTTGGAAGGAACCGGTCCCGACGGTTTCTGCTTGCC
TCGCCTCTTCCCCCTTTTGTGAGCTGAGCAGTTTGTGGTTTCTATGCCCCGAAGTTTCAGGAAGTATTCACAAAA
GAAAAATACATTTTTTCCCCCAGGGGTGGGGCAAGGACAGTGGAGAGAGTGCTAGGAAATGAGTCCCCTGGGAAA
GGGGACCGGGCCGTGATGTTAAATATCTCCGGCTCCCAAGTACTGGATTGCTTAGGACCTTCAGACCAACAGA
CTTCAGACCCTCAGACCTGCCCCGGGGCCAGGTGGAGAAAGTGGGGCCGTACAAGGAAGTGAAATTCTGAGTTG
TTGGGGCTAAGCCTGACCCCTCTCCATGCTCCCCGCCCCAACCCTCTGGCCTCAGTAGATTTTTTTTTTTCAGT
TGTGGTTGTTGCCAGGCTGGAGTGCAGTGGCGCCATCTGGCTCACTGCACCTCCACCTTCCGGGGCTCAAGCGA
TTCTCCAGCCTCAGCCTCCTGAGTAGCTAGGACTGCAGGTGCTCCACCACGCCCGGCTAATTTTTGTATTTTTAG
TAGAGATGGGGTTTTCCCCTGTTGGCCAGGCTGGTCTCGAACTCCTGGCCTCAGGTGTGATCCGCCCCCTCCGC
CTCCCCAAGCGCTGAGATTACAGGTGTGAGCCACCGTGCCCAGCCCCCTCAGTAGGTTTTTAAGGAGCCCCCAGCCC
TCCTCCCTTCTGGGCCCCGACCAGCTTATACTGCTCCATCTTCCCCGGCCACATGCCCGCCCAAGTACTGCACAGG
GACCCCCACCCAGGGGACCTGCTCCGTGAGATAATGTGAAATACGACTGTGGACCAAACGCAATAAAACCTCTG
TTTGTACGAAG

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FIGURE 5110

GGCGGCGGCGGCGGAGGCTGCCATGGACGACGAGGAGGAGACGTACCGGCTCTGGAAAATCCGCAAGACCATCAT
GCAGCTGTGCCACGACCGTGGCTATCTGGTGACCCAGGACGAGCTTGACCAGACCCCTGGAGGAGTTCAAAGCCCA
ATCTGGGGACAAGCCGAGTGAGGGGCGGCCGCGGCGCACGGACCTCACCGTGCTGGTGGCCCAACGATGACCC
CACCGACCAGATGTTTGTGTTCTTTCCAGAGGAGCCCAAGGTGGGCATCAAGACCATCAAGGTGTACTGCCAGCG
CATGCAGGAGGAGAACATCACACGGGCTCTCATCGTGGTGACAGAGGCATGACACCCCTCCGCCAAGCAGTCCCT
GGTCGACATGGCCCCCAAGTACATCCTGGAGCAGTTTCTGCAGCAGGAGCTGCTCATCAACATCACGGAGCACGA
GCTAGTCCCTGAGCACGTCGTCATGACCAAGGAGGAGGTGACAGAGCTGCTGGCCCGATATAAGCTCCGAGAGAA
CCAGCTGCCCAGGATCCAGGCGGGGACCCCTGTGGCGCGCTACTTTGGGATAAAGCGTGGGCAGGTGGTGAAGAT
CATCCGGCCCAGTGAGACGGCTGGCAGGTACATCACCTACCGGCTGGTGACGTAGCTACCGCCTGACAGCCCCTA
GAGGCGGACACACAGCGACCCCCATCCCTGCAGGACAAACGCCCCCTGCCCTGCCAGAATCCGGCCCCACAGCTC
TCACGGCTGCTGCTCCTCTGGACTCCCCAAGGCAGGTGGCCTCCACCCACGTTCTCCCGTCCCTGGGGTGAGGCTT
CCTGTGGCCAGCCCGCCCCATTACCTGTGGATTTGTGCGAGATGCAGCCTCAGAAGGAACAAGGCCCCAGAG
GGAGGTCACCTGGGGGAGCTGGTGCCGGGTCTTCACCCAGACCACGCTGGGTCCCCTCTGTTGGGGGTTTGGGG
TCCGGGTCTCCCACCAGCCACTGCTTCCTCCTGGGCCCTCGGCCCTCCACCCCTCGTCTTCCCTCCCTCGGGGGC
CCTGATGCGTGGCGGCCCCCGCCCGGCTCGGCTCTTTACTCCATTACAGCCATGCACGCGCTCAAGCCACCAG
GGTCCGAGATGCCAGCTCTGGAGTTCTCGGTTGTTGTAGGAGGTTGGGTGTTTTCAAATGGTAAAGATGTTTTGA
GCAAATAAATTGCTTGATACAG

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FIGURE 5111

MDDEEETYRLWKIRKTIMQLCHDRGYLVTQDELDQTL EEFKAQSGDKPSEGRPRRTDLTVLVAHNDDPTDQMFVF
FPEEPKVGIKTIKVYCQRMQEENITRALIVVQQGMTPSAKQSLVDMAPKYILEQFLQQELLINITEHELVP EHV
MTKEEVTELLARYKLRENQLPRIQAGDPVARYFGIKRGQVVKIIRPSETAGRYITYRLVQ

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FIGURE 512

CGGGGAGGCGCGGAAAGCCGACGCGCGTCCATTGGTCGGCTGGACGAGGGGAGGAGCCGCTGGCTCCCAGCCCCG
CCGCGATGAGCCTCGGCCGCCCTTTGCCGCCTACTGAAGCCGGCGCTGCTCTGTGGGGCTCTGGCCGCGCCTGGCC
TGGCCGGGACCATGTGCGCGTCCCGGGACGACTGGCGCTGTGCGCGCTCCATGCACGAGTTTTCCGCCAAGGACA
TCGACGGGCACATGGTTAACCTGGACAAGTACCGGGGCTTCGTGTGCATCGTCACCAACGTGGCCTCCCAGTGAG
GCAAGACCGAAGTAACTACACTCAGCTCGTCGACCTGCACGCCCAGATACGCTGAGTGTGGTTTTCGGGATCCTGG
CCTTCCCGTGTAACCAAGTTCGGGAAGCAGGAGCCAGGGAGTAACGAAGAGATCAAAGAGTTTCGCCGCGGGCTACA
ACGTCAAATTCGATATGTTTACGAAGATCTGCGTGAACGGGGACGACGCCACCCGCTGTGGAAGTGGATGAAGA
TCCAACCCAAGGGCAAGGGCATCCTGGGAAATGCCATCAAGTGGAACTTCACCAAGTTCCTCATCGACAAGAACG
GCTGCGTGGTGAAGCGCTACGGACCCATGGAGGAGCCCCTGGTGATAGAGAAGGACCTGCCCCACTATTTCTAGC
TCCACAAGTGTGTGGCCCCGCGGAGCCCCTGCCACGCCCTTGGAGCCTTCCACCGGCACTCATGACGGCCTGC
CTGCAAACCTGCTGGTGGGGCAGACCCGAAAATCCAGCGTGCACCCCGCCGAGGAAGGTCCCATGGCCTGCTGG
GCTTGGCTCGGCGCCCCCACCCCTGGCTACCTTGTGGGAATAAACAGACAAATTAGAAAAAAAAAAAAAAAAA

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FIGURE 5113A

GCCCCAAACCCGGAAGTGAGCGGCGGCAGCTGCGAGGCTCGGAGAAACAGGCGCCGCGGGCTCCGCGCCCGGCCG
GACCCGGGCCCCGAGATCATGATGCTGCCGCCACCGCCGCCACCACGGAGCGAGAAGCCAGATAGACGCCCCGGC
GGCCCCGGGTCTTGAGTCCCGCCGCTGCTGCCCGGCCGAGGACCCACCCGCGCTGCCGCCGATGCTTGACG
TGGGGCCCGCCATGGACAGGGATTACCCGCAGCATGAACCCCGCCGCGGGCAGCCTCTGTACAGCCCGCCGC
CCCTGCAGAGCGCCATGCTGCACTGCCCTACTGGAACACCTTCTCGCTGCCGCCATACCCTGCCTTCTCCAGCG
ACAGCCGCCCCGTTTCATGAGCTCCGCTCTTCTCGGCAGCCAGCCCTGCCAGACACCAGCTATGCCCCCGTGG
CCACCGCCTCCAGCTTGCCACCAAAGACCTGCGACTTGTCTCAGGACTCCTCCTATTTTGAGGACTTCTCCAACA
TCTCCATCTTCTCCTCGTCCGTGGACTCCCTGTGCGACATCGTGACACGCCCCGACTTCTGCCGGCTGACAGCC
TCAACCAGGTGTCCACCATCTGGGACGATAACCCTGCCCCCTCCACCCACGATAAGCTGTTCCAGCTCAGCAGGC
CGTTTGCAGGCTTCGAGGACTTCTGCCCCCTCCACAGCACCCGCTTCTCGTCAGCTACCAGGAGCAGAGTGTGC
AGAGCCAGCCAGAGGAGGAGGACGAGGCTGAGGAGGAGGAGGCGGAGGAGCTGGGGCACACAGAGACCTACGCCG
ACTACGTGCCGTCCAAGTCCAAGATCGGGAAGCAGCACCCAGACCGCGTGGTGGAGACCAGCACACTGTCCAGCG
TCCACCCCCAGACATCACCTACACCTGGCCCTGCCCTCGGACAGCGGGGCCCTGTCTGCCCTGCAGCTAGAGG
CCATCACCTACGCTGCCAGCAACACGAGGTCTGTCTCCCGAGCGGGCAGCGCGCGGGCTTCTCATCGGCGATG
GGGCGGCGTGGGCAAAGGCCGACGGTGGCCGGAGTCATCTGGAGAACCACCTGCGCGGCCGGAAGAAAGCAT
TGTGGTTACGCTCTCCAACGACCTCAAGTACGATGCGGAGCGCGACCTGCGGGACATCGAAGCCACGGGCGATCG
CGGTGCACGCGCTCAGCAAGATCAAGTACGGTGACACCACTACCTCAGAGGGCGTCTCTTCGCCACCTACTCCG
CCCTGATTGGGGAGAGCCAGGCCGCGGCCAGCACCGCACTCGCCTCCGGCAGATCCTGGACTGGTGTGGGGAGG
CCTTCGAGGGCGTCATCGTGTTCGACGAGTGTACAAAGCCAAGAATGCCGGCTCCACCAAGATGGGCAAGGCTG
TGCTAGACCTGCAGAACAAGCTGCCCTGGCCCGCGTGGTCTACGCCAGCGCCACAGGTGCCTCTGAGCCTCGGA
ACATGATCTACATGAGCCGCTTGGGTATCTGGGGCGAGGGCACACCTTCCGGAACCTTGAGGAGTTCTTGCACG
CCATCGAGAAGAGGGGCGTGGCGCCATGGAGATCGTGGCCATGGACATGAAGGTGAGCGGCATGTACATCGCAC
GCCAGCTCAGCTTCTCCGGCGTCACCTTCCGCATCGAGGAGATCCGCTGGCCCCAGCCTTCGAGTGCCTTACA
ACCGCGCGGCCCTGCTGTGGGCGGAGGCCCTGAACGTGTTCCAGCAGGCGGCCGACTGGATCGGCCTGGAGTGC
GCAAGTCCCTGTGGGGCCAGTTCTGGTTCGGCACACCAGCGCTTCTTCAAGTATCTGTGCATCGCAGCCAAGGTGC
GCCGGCTGGTGGAGCTGGCCCCGAGAGGAGCTGGCGCGAGACAAGTGCCTGGTTCATCGGGCTGCAGTCCACGGGCG
AGGCGCGCACGCGGGAGGTGCTGGGGGAGAACGATGGGCACCTCAACTGCTTCGTCTCGGCCGCTGAAGGCGTGT
TCCTGTGCTAATTGAGAAGCACTTTCGTCACCAAGAGAAAGCGGGACAGAGGAGCGGGCAGCAAGCGGAAAC
GGCGACCTCGGGGACGCGGGGCCAAAGCCCCCGGCTGGCGTGCAGACAGCGGGCGTCATCCGCATCAGTGACG
ACAGCAGCACGGAGTCGGACCCCTGGCCTGGACAGCGACTTCAACTCCTCCCCGAGTCCCTGGTGGATGACGACG
TTGTATCGTTGATGAGTCGGGCTCCCCAGTGACGACCGGGGACCCCTGTGCCTCCTGCAGAGAGACCCGCATG
GCCCCGGGGTCTTGAGCGGGTGGAGCGGCTGAAGCAGGATCTGCTGGACAAAGTGCGGCGGCTGGGCCGGGAAC
TGCCAGTCAACACCTTGACGAGCTCATCGACCAGCTGGGCGGCCCCAGCGGGTGGCGGAGATGACCGGCAGGA
AAGGCCGCGTGGTGTCCAGGCCCGACGGGACGGTGGCCTTCGAGTGCAGGGCAGAGCAGGGTCTGTCCATCGACC
ACGTGAACCTCAGGGAGAAGCAGCGCTTCATGAGCGGCGAGAAGCTCGTGGCCATCATCTCGGAGGCCCTCAGCT
CGGGTGTCTCCCTCCAAGCCGACCGCCGTGTCCAGAACCAGCGGCGCGCGTGCACATGACCTTGGAGCTGCCGT
GGAGCGCCGACCGCGCCATCCAGCAGTTCCGGCCGACCCACCGGTCCAACCAGGTCTCCGCGCCAGAGTATGTCT
TCCTCATCTCGGAGCTGGCCGGGGAGCGCCGGTTCGCCTCCATCGTGGCCAAGCGCCTGGAGAGTCTGGGGGCCC
TGACCCACGGAGACCGCCGCGCCACGAGTCCCGTGACCTCAGCAAGTACAACCTTGAGAACAAGTATGGCACCC
GGGCCCTGCACTGTGTCTCACCACCATCCTGAGCCAGACTGAGAACAAGTGCCTGTGCCCCAGGGATACCCTG
GAGGGGTCCCCACCTTCTTCCGGGACATGAAGCAGGGCCTGCTGTCTGTGGGCATTGGTGGCCGGGAGTCCCGGA
ATGGCTGCCTGGACGTGGAGAAGGACTGTTCCATCACCAAGTTCTGAACCGCATCCTGGGGCTGGAGGTGCACA
AGCAGAACGCCCTGTTCCAGTACTTCTCAGACACCTTCGACCACCTCATCGAGATGGACAAGCGGGAGGGCAAT
ACGACATGGGCATCCTGGACCTTGTCTCCCGTATCGAGGAGATCTACGAGGAGAGCCAGCAGGTGTTCTGGCTC
CCGGGCACCCGAGGACGGGACGGTGGTCTTCTACAAGATCAGCGTGGACCGCGGCCTGAAGTGGGAGGACGCCT
TTGCCAAGTCGCTGGCGCTGACGGGCCCTATGACGGCTTCTACCTCTCTACAAGGTCCGCGGTAACAAGCCCA
GCTGCCTGTGCGGAGCAGAACCAGCGGCCAGTTCTTACGGTGTACAAGCCCAACATCGGCCGGCAGAGCCAGC
TGGAGGCCCTGGACAGCCTCCGCGCAAGTTCCACCGGGTCACCGCGGAGGAGGCCAAGGAGCCCTGGGAGAGTG

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FIGURE 5113B

GCTACGCTTTGTGCTGACGCACTGCAGCCACAGCGCCTGGAACCGGCACTGCCGGCTGGCGCAGGAGGGTAAGG
ACTGCCTGCAGGGGCTGCGGCTGCGGCACCACTACATGCTGTGCGGCGCGCTGCTGCGCGTGTGGGGCCGCATCG
CCGCCGTCATGGCCGACGTCAGCAGCAGCAGCTACCTGCAGATCGTGCGGCTGAAGACCAAGGACAGGAAGAAGC
AAGTGGGCATCAAGATCCCCGAGGGCTGCGTGCGCCGGGTGCTGCAGGAGCTGCCGGCTGATGGATGCGGACGTGA
AGCGCAGGCAGGCGCCCGCCCTGGGCTGCCCCGCCCCGCCCCGCCCCGCGCCCGCTGGCGCTGCCTTGCGGCCCCG
GAGAGGTGCTGGACCTCACCTACAGCCCCCGGCCGAGGCCTTCCCGCCGCCCCCGCACTTCTCTTTCCCGGCGC
CGCTGTCCCTGGACGCCGGCCCCGGCGTCGTGCCGCTGGGCACCCCCGACGCCCAGGCCGACCCTGCGGCCCTCG
CGCACCAGGGCTGCGACATCAACTTCAAGGAGGTGCTGGAGGACATGCTGCGCTCGCTGCACGCGGGGCCGCCCT
CCGAGGGCGCGCTGGGGGAGGGCGCGGGGGCGGGGGCGCGGGCGGGCGGTGGTCCCGAGCGGCAGAGCGTGATCC
AGTTCAGCCACCCCTTCCCCGGCGCCAGGCTCCTCTCTGACACGCCTTTAGGCGAAACATGCCCCAAGACACAG
GGACCGTTTCTCCCTAGGAGCAGCGGTGGGGAGCAGGGCCAAGGTCCCTTGACCACTGCTCAGAGGAGCCCTAG
GCCCTGGCCGCACTGCCCTTCAGCGCCCGACCCGGGCCCCCACCTGGTCAGCCCTGGCGGGGGCCCACTCAGGACAG
CTGGGGGCCGGGGCGTGGCAGGGCCCTCTCTGTGCCTCTCCTCCCAAGTAGGAAGGGGCTCCGGGTGGCTGCTCT
GGGACTGGGCACCCACAAGGGCTCAGTGGGGCCAAACCCTTGAAATCCGTGAAACCGGGTGGTCCCAAGAGCTAG
AAACTCAGGAAACCCCAAGTGCTCAGGGCCCCGCGTCTCGGGGGCTCCGTGGGGCAGACCCCTGCTAATATATGC
AATTCTCCCTCCCCCAGCCCTTCCCTGACCCCTAAGTTATTGCCCGCTCACCTCTCCAGGCCCCAGGCCGCGGA
GCTGGCAGGGTGGCGCCTGCGGTTTCTATGTATTTATAGCAAGTTCTGATGTACATATGTAAAGGACTTTTTTAA
AT

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FIGURE 5114

CCCAGGGTCCCCGAGGACGAAGTTGACCCTGACCGGGCCGTCTCCCAGTTCTGAGGCCCGGGTCCCAGTGGAACT
CGCGTCTGAGCCGCCGTCCCGGACCCCGGTGCCCGCCGTCCGCAGACCCTGCACCGGGCTTGGACTCGCAGCC
GGGACTGACGTGTAGAACAATCGTTTTCTGTTGGAAGAAGGGTTTTTCCCTTCCTTTTGGGGTTTTTGTTCCTTT
TTTTTTCTTTTTCTTTGTAAATTTTGGAGAAGGGAAGTCGGAACACAAGGAAGGACCGCTCACCCGCGGACT
CAGGGCTGGCGGCGGGACTCCAGGACCCTGGGTCCAGCATGGAGGTGGTGGACCCGCAGCAGCTGGGCATGTTCA
CGGAGGGCGAGCTGATGTCGGTGGGTATGGACACGTTTCATCCACCGCATCGACTCCACCGAGGTCATCTACCAGC
CGCGCCGCAAGCGGGCCAAGCTCATCGGCAAGTACCTGATGGGGGACCTGCTGGGGGAAGGCTCTTACGGCAAGG
TGAAGGAGGTGCTGGACTCGGAGACGCTGTGCAGGAGGGCCGTCAAGATCCTCAAGAAGAAGAAGTTGCGAAGGA
TCCCCAACGGGGAGGCCAACGTGAAGAAGGAAATTCACTACTGAGGAGGTTACGGCACAAAAATGTCATCCAGC
TGGTGGATGTGTTATACAACGAAGAGAAGCAGAAAATATATATGGTGTATGGAGTACTGCGTGTGTGGCATGCAGG
AAATGCTGGACAGCGTGCCGAGAGAAGCGTTTCCAGTGTGCCAGGCCACCGGGTACTTCTGTGCTGAGCTGATTGACG
GCCTGGAGTACCTGCATAGCCAGGGCATTGTGCACAAGGACATCAAGCCGGGGAACTGCTGCTCACCACCGGTG
GCACCTCAAAATCTCCGACCTGGGCGTGGCCGAGGCACTGCACCCGTTTCGCGGCGGACGACACCTGCCGGACCA
GCCAGGGCTCCCCGGCTTTCCAGCCGCCGAGATTGCCAACGGCCTGGACACCTTCTCCGGCTTCAAGGTGGACA
TCTGGTCCGGCTGGGGTCACCTCTACAACATCACCACGGGTCTGTACCCCTTCGAAGGGGACAACATCTACAAGT
TGTTTGAGAACATCGGGAAGGGGAGCTACGCCATCCCGGGCGACTGTGGCCCCCGCTCTCTGACCTGCTGAAAG
GGATGCTTGAGTACGAACCGGCCAAGAGTTCTCCATCCGGCAGATCCGGCAGCACAGCTGGTTCCGGAAGAAAC
ATCCTCCGGCTGAAGCACCAGTGCCCATCCACCGAGCCAGACACCAAGGACCGGTGGCGCAGCATGACTGTGG
TGCCGTACTTGGAGGACCTGCACGGCGCGGACGAGGACGAGGACCTCTTCGACATCGAGGATGACATCATCTACA
CTCAGGACTTCACGGTGCCCGGACAGGTCCAGAAAGAGGAGGCCAGTCACAATGGACAGCGCCGGGGCCCTCCCCA
AGGCCGTGTGTATGAACGGCACAGAGGCGGCGCAGCTGAGCACCAAATCCAGGGCGGAGGGCCGGGGCCCCCAACC
CTGCCCCGAAGGCCTGCTCCGCCAGCAGCAAGATCCGCCGGCTGTGCGCCCTGCAAGCAGCAGTGGGCTGGCCGC
CTGCAGCCCGTGTCCAGGAGCCCCGCCAGGTGCCCGGCCAGGCCCTCAGTCTTCTGCGCGTTCCGCCCCGCCCT
CCCGGAGAGGTGGCCGCCATGCTTCTGTGCCGACCACGCCCCAGGACCTCCGGAGCGCCCTGCAGGGCCGGGCAG
GGGGACAGCAGGGACCGGGCGCAGCCCTCCCCCTCGGCCGCCCGGCAGTGCACGCGGCTTGTGACTTCGCAGC
CCCGGGCGGAGCCTTCCCGGGCGGGCGTGGGAGGAGGAGGCGGCCTCCATGCACTTTATGTGGAGACTACTGGC
CCCGCCCGTGGCCTCGTGCTCCGCAGGGCGCCAGCGCCGTCCGGCGGCCCCCGCCGAGACCAGCTGGCGGGTGT
GGAGACCAGGCTCCTGACCCCGCCATGCATGCAGCGCCACCTGGAAGCCGCGCGGCCGCTTTGGTTTTTTGTTG
GTTGGTTCCATTTCTTTTTTTCTTTTTTTTTTTAAGAAAAATAAAAGGTGGATTTG

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FIGURE 5115

GTCTCTCTCGCCCTCCAGGCCGCCCGCGCCGCGCCGGAGTCCGCTGTCCGCCAGCTACCCGCTTCCTGCCGCCCG
CCGCTGCC**ATG**CTGCCCCGCCGCGCTGCTCCGCCGCCCGGGACTTGGCCGCCTCGTCCGCCACGCCCCGTGCCTATG
CCGAGGCCGCCGCCGCCCGGCTGCCGCCTCTGGCCCCAACCCAGATGTCCTTCACCTTCGCCTCTCCACGCAGG
TGTTCTTCAACGGTGCCAACGTCCGGCAGGTGGACGTGCCACGCTGACCGGAGCCTTCGGCATCCTGGCGGCC
ACGTGCCCCACGCTGCAGGTCTGCGGCCGGGGCTGGTCTGGTGCATGCAGAGGACGGCACCACCTCCAAATACT
TTGTGAGCAGCGGTTCCATCGCAGTGAACGCCGACTCTTCGGTGCAGTTGTTGGCCGAAGAGGCCGTGACGCTGG
ACATGTTGGACCTGGGGGCAGCCAAGGCAAACCTTGGAGAAGGCCCAGGCGGAGCTGGTGGGGACAGCTGACGAGG
CCACGCGGGCAGAGATCCAGATCCGAATCGAGGCCAACGAGGCCCTGGTGAAGGCCCTGGAG**TAG**CGGTGCGTA
CCCGGTGTCCCGAGGCCCGGCCAGGGGCTGGGCAGGGATGCCAGGTGGGCCAGCCAGCTCCTGGGGTCCCGGCC
ACCTGGGGAAGCCGCGCCTGCCAAGGAGGCCACCAGAGGGCAGTGCAGGCTTCTGCCTGGGCCCCAGGCCCTGCC
TGTGTTGAAAGCTCTGGGGACTGGGCCAGGGAAGCTCCTCCTCAGCTTTGAGCTGTGGCTGCCACCCATGGGGCT
CTCCTTCCGCCTCTCAAGATCCCCCAGCCTGACGGGCCGCTTACCATCCCCCTCTGCCCTGCAGAGCCAGCCGCC
AAGGTTGACCTCAGCTTCGGAGCCACCTCTGGATGAAGTGGCCCCAGCCCCGCCCCATTAAAGACCCGGAAGCC
TGAAAAAAAAAAAAAAAAA

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FIGURE 5116

MLPAALLRRPGLGRLVRHARAYAEAAAAPAAASGPNQMSFTTFASPTQVFFNGANVRQVDVPTLTGAFGILAAHVP
TLQVLRPGLVVVHAEDGTTSKYFVSSGSIAVNADSSVQLLAEAEVTLDMDLGAAKANLEKAQAELVGTADEATR
AEIQIRIEANEALVKALE

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FIGURE 5117

[illegible]

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FIGURE 5118

MSLAIHSTTGTRYDLAVFPDETVEGLRKRLSQRKVPKERLALLHKDTRLSSGKLQEFVGDGSKLTLVPTVEAG
LMSQASRPEQSVMQALESLTETQPPAAPGPGRAGGGGFRKYRFILFKRPWHRQGPQSPERGGERPQVSDFLSGRS
PLTLALRVGDHMMFVQLQLAAQHAPLQHRHVLAAAAAAAAAARGDPSIASPVSSPCRVPSSAARVPPVETSPSPAS
PSPITAGSFRSHAASTTCPEQMDCSPTASSSASPGASTTSTPGASPAPRSRKPGAVIESFVNHAPGVFSGTFSGT
LHPNCQDSSGRPRRDIGTILQILNDLLSATRHYQGMPPSLAQLRCHAQCSPASPAPDLAPRTTSCEKLTAAPSAS
LLQGQSQIRMCKPPGDRLRQTENRATRCKVERLQLLLQKRLRRKARRDARGPYHWSPSRKAGRSDDSSSSGGGGS
PSEASGLGLDFEDSVWKPEVNPDIKSEFVVA

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FIGURE 5119

GAGGCTCGGGTCGTTGTGGTGCGCTGTCTTCCCGCTTGCCTCAGGGACCTGCCCCGACTCAGTGGCCGCCATGGCA
TCAGATGAAGGCAAACCTTTTGTGGAGGGCTGAGTTTGGACACCAATGAGCAGTCGCTGGAGCAGGTCTTCTCA
AAGTACGGACAGATCTCTGAAGTGGTGGTTGTGAAAGACAGGGAGACCCAGAGATCTCGGGGATTTGGGTTTGTCTC
ACCTTTGAGAACATTGACGACGCTAAGGATGCCATGATGGCCATGAATGGGAAGTCTGTAGATGGACGGCAGATC
CGAGTAGACCAGGCAGGCAAGTCGTCAGACAACCGATCCCGTGGGTACCGTGGTGGCTCTGCCGGGGGCCGGGGC
TTCTTCCGTGGGGGCCGAGGACGGGGCCGTGGGTTCCTAGAGGAGGAGGGGACCGAGGCTATGGGGGGAACCGG
TTCGAGTCCAGGAGTGGGGGCTACGGAGGCTCCAGAGACTACTATAGCAGCCGAGTCAGAGTGGTGGCTACAGT
GACCGGAGCTCGGGCGGGTCTTACAGAGACAGTTATGACAGTTACGCTACACACAACGAGTAAAAACCCCTTCCTG
CTCAAGATCGTCCTTCCAATGGCTGTGTGTTTAAAGATTGTGGGAGCTTCGCTGAACGTTAATGTGTAGTAAATG
CACCTCCTTGTATTCCCACTTTTCGTAGTCATTTCGGTTCCTGATCTTGTCAAACCCAGCCTGACCGCTTCTGACGC
CGGGATGGCCTCGTTACTAGACTTTTCTTTTAAAGGAAGTGCTGTTTTTTTTTGAGGGTTTTCAAACATTTTGA
AAAGCATTTTACTTTTTTGACCACGAGCCATGAGTTTTCAAAAAAATCGGGGGTTGTGTGGGTTTTTGGTTTTTGT
TTTAGTTTTTGGTTGCGTTGCCTTTTTTTTTTTAGTGGGGTTGGCCCCATGAAGTGGGTGCCCCACTCACTTCTC
TGAGATCGAACGGACTGTGAATCCGCTCTTGTGCGGAAGCTGAGCAAGCTGTGGCTTTTTTCCAACCTCCGTGTGA
CGTTTCTGAGTGTAGTGTGGTAGGACCCCGCGGGTGTGGCAGCAACTGCCCTGGAGCCCCAGCCCCTGCGTCCA
TCTGTGCTGTGCGCCCCACAGTAGACGTGCAGACGTCCCTGAGAGGTTCTTGAAGATGTTTATTTATATTGTCCT
TTTTTACTGGAAGACGTACGCATACTCCATCGATGTTGTATTTGCAGTGGCTGAGGAATTCTTGTACGCAGTTTT
CTTTGGCTTTACGAAGCCGATTAAAAGACCGTGTGAAATG

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FIGURE 5120

CCAAGATGGCGGTGCTGTCAGCTCCTGGCCTGCGCGGCTTCCGGATCCTTGGTCTGCGCTCCAGCGTGGGCCCGG
CTGTGCAGGCACGAGGTGTCCATCAGAGCGTGGCCACCGATGGCCCAAGCAGCACCCAGCCTGCCCTGCCAAAGG
CCAGAGCCGTGGCTCCCAAACCCAGCAGCCGGGGCGAGTATGTGGTGGCCAAGCTGGATGACCTCGTCAACTGGG
CCCGCCGGAGTTCTCTGTGGCCCATGACCTTCGGCCTGGCCTGCTGCGCCGTGGAGATGATGCACATGGCAGCAC
CCCGCTACGACATGGACCGCTTTGGCGTGGTCTTCCGCGCCAGCCCGCGCCAGTCCGACGTCATGATCGTGGCCG
GCACACTCACCAACAAGATGGCCCCAGCGCTTCGCAAGGTCTACGACCAGATGCCGGAGCCGCGCTACGTGGTCT
CCATGGGGAGCTGCGCCAACGGAGGAGGCTACTACCACTATTCTACTCGGTGGTGAGGGGCTGCGACCGCATCG
TGCCCGTGGACATCTACATCCCAGGCTGCCCACCTACGGCCGAGGCCCTGCTCTACGGCATCCTGCAGCTGCAGA
GGAAGATCAAGCGGGAGCGGAGGCTGCAGATCTGGTACCGCAGGTAGCGCCGCCGCCGCCGCCGCCGAGCCTGT
CGCCGTCTGTCCCCAGCCTGCTTGTGTCCCGTGAGGTTGTCAATAAACCTGCCCTCGGGCTGCCGCCAAAAAA
AA

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FIGURE 5121

MAVLSAPGLRGFRILGLRSSVGPAVQARGVHQSVATDGPSSTQPALPKARAVAPKPSSRGEYVVAKLDDLVNWAR
RSSLWPMTFGLACCAVEMMHMAAPRYDMDFRGVVFRASPRQSDVMIVAGTLTNKMAPALRKVYDQMPEPRYVISM
GSCANGGGYYHYSYSVVRGCDRIVPVDIYIPGCPPTAEALLYGILQLQRKIKRERRLQIWYRR

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FIGURE 5122

CCCCGGCCCACAAGCCCCTGCAGGGAGCGGGCCCCGGGCGGCGCGATCGAGGTGGGGTCGCCGTCCAGCCTGCA
GCATGAGCGCCCCCAGCGCGACCCCCATCTTCGCGCCCCGGCGAGAACTGCAGCCCCGCGTGGGGGGCGGCGCCCG
CGGCCTACGACGCAGCGGACACGCACCTGCGCATCCTGGGCAAGCCGGTGATGGAGCGCTGGGAGACCCCTATA
TGCACGCGCTGGCCGCCGCCCTCCTCCAAAGGGGGCCGGGTCTGGAGGTGGGCTTTGGCATGGCCATCGCAG
CGTCAAAGGTGCAGGAGGCGCCCATTTGATGAGCATTGGATCATCGAGTGCAATGACGGCGTCTTCCAGCGGCTCC
GGGACTGGGCCCCACGGCAGACACACAAGGTCATCCCTTGAAAGGCCTGTGGGAGGATGTGGCACCCACCCTGC
CTGACGGTCACTTTGATGGGATCCTGTACGACACGTACCCACTCTCGGAGGAGACCTGGCACACACACCAGTTCA
ACTTCATCAAGAACCACGCCCTTTCGCTGCTGAAGCCGGGGGGCGTCTCACCTACTGCAACCTCACCTCCTGGG
GGGAGCTGATGAAGTCCAAGTACTCAGACATCACCATCATGTTTGAGGAGACGCAGGTGCCCCGCGCTGCTGGAGG
CCGGCTTCCGGAGGGAGAACATCCGTACGGAGGTGATGGCGCTGGTCCCACGGGCCGACTGCCGCTACTACGCCT
TCCCACAGATGATCACGCCCCCTGGTGACCAAAGGCTTGACCCCCACCCCGGCCCGGCCACACCCATGCCCTCCTC
CGTGCCCTTCTGCGCCGGGAGTCCAGGGTGTCGCACCAGCCCTGGGCTGATCCCAGCTGTGTGTCACCAGAAGCTT
TCCCGGCTTCTCTGTGAGGGGTCCCACCAGCCAGGGCTGATCCCAGCTGTGTGTCACCAGCAGCTTTCCCAGCT
TCTCTGTGAGGGTCACTGCTGCCCCTGCAGGGTCCCTGAGGTGAAGTAAACGCCGGCGCTGGGCTTGGCCAGTC
GGCAGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5123

MSAPSATPIFAPGENCSPA WGAAPAAYDAADTHLRILGKPVMERWETPYMHALAAAASSKGGRVLEVGF GMAIAA
SKVQEAPIDEHWIIECNDGVFQRLRDWAPRQTHKVIPLKGLWEDVAPTLPDGHFDGILYDTYPLSEETWHTHQFN
FIKNHAFRLKPGGVLTTCNLTSWGELMKS KYS DITIMFEETQVPALLEAGFRRENIRTEVMALVPPADCRYAF
PQMITPLVTKG

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FIGURE 5124

CCCCGGCCCACAAGCCCCCTGCAGGGAGCGGGCCCCGGGCGGCGCGATCGAGGTGCGGGTCGCCGTCCAGCCTGCA
GCATGAGCGCCCCCAGCGCGACCCCCATCTTCGCGCCCCGGCGAGAACTGCAGCCCCGCGTGGGGGGCGGCGCCCG
CGGCCTACGACGCAGCGGACACGCACCTGCGCATCCTGGGCAAGCCGGTGATGGAGCGCTGGGAGACCCCTATA
TGCACGCGCTGGCCGCCGCCCTCCTCCAAAGGGGGCCGGGTCTGGAGGTGGGCTTTGGCATGGCCATCGCAG
CGTCAAAGGTGCAGGAGGCGCCCATTTGATGAGCATTGGATCATCGAGTGCAATGACGGCGTCTTCCAGCGGCTCC
GGGACTGGGCCCCACGGCAGACACACAAGGTTCATCCCTTGAAAGGCCTGTGGGAGGATGTGGCACCCACCCTGC
CTGACGGTCACTTTGATGGGATCCTGTACGACACGTACCCACTCTCGGAGGAGACCTGGCACACACACCAGTTCA
ACTTCATCAAGAACCACGCCTTTCGCCTGCTGAAGCCGGGGGGCGTCTCACCTACTGCAACCTCACCTCCTGGG
GGGAGCTGATGAAGTCCAAGTACTCAGACATCACCATCATGTTTGAGGTGCGCCACCTGAAGTTCCCCATGGGT
CTCCAGGAAGTGACCTTGGATGGGGGTGGGAAGGGGCTGCTGGAGCCACCTTGCTACCTGGGGAGGGTCCCTTCC
TGACCCCTGGGTGGGCTGGACTGTGCTGGTTCAITTAGAAATCAAAGTCCTTTGCCTGGCGCAGTGGCTGCCAG
GAGCAGTGGCTCAGGTCTATAATCCCAGCACTGTGGAAGGCCGAGGTGGGCAGATTGCTTGAGCCTAGGAGTTCA
AGACCAGCCTGGGCTACAGAGCAAGACCTCATCTTCTAAAAAATAACAAAAA

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FIGURE 5125

MSAPSATPIFAPGENCSPA WGAAPAAYDAADTHLRILGKPVMERWETPYMHALAAAASSKGGRVLEVGFMAIAA
SKVQEAPIDEHWIIECNDGVFQRLRDWAPRQTHKVIPLKGLWEDVAPTLPDGHFDGILYDITYPLSEETWHTHQFN
FIKNHAFRLKPGGVLTTCNLTSWGELMKSYS DITIMFEVRPPEVPHGSPGSDLGWGWEGAAGATLLPGEGPFL
TPWVGWTVLVHLEIKVLCLAQWLPGAVAQVYNPSTVEGRGGQIA

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FIGURE 5126

CTGCGCAGGCGCGGACCAAAGCGATCTCTTCTGAGGATCCGGCAAGATGGCAGAAGTAGAGCAGAAGAAGAAGCG
GACCTTCCGCAAGTTCACCTACCGCGGCGTGGACCTCGACCAGCTGCTGGACATGTCCTACGAGCAGCTGATGCA
GCTGTACAGTGCGCGCCAGCGGCGGCGGCTGAACCGGGGCCTGCGGCGGAAGCAGCACTCCCTGCTGAAGCGCCT
GCGCAAGGCCAAGAAGGAGGCGCCGCCCATGGAGAAGCCGGAAGTGGTGAAGACGCACCTGCGGGACATGATCAT
CCTACCCGAGATGGTGGGCAGCATGGTGGGCGTCTACAACGGCAAGACCTTCAACCAGGTGGAGATCAAGCCCGA
GATGATCGGCCACTACCTGGGCGAGTTCTCCATCACCTACAAGCCCGTAAAGCATGGCCGGCCCGGCATCGGGGC
CACCCACTCCTCCCGCTTCATCCCTCTCAAGTAATGGCTCAGCTAATAAAGGCGCACATGACTCC

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FIGURE 5127

MAEVEQKKKRTFRKFTYRGVDLDQLLDMSYEQLMQLYSARQRRRLNRGLRRKQHSLLKRLRKAKKEAPPMEKPEV
VKTHLRDMIILPEMVGSMVG VYNGKTFNQVEIKPEMIGHYLGEFSITYKPVKHGRPGIGATHSSRFIPLK

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FIGURE 5128

AGCATGCAGTTCGGTCACCTGAGGGTGCTGGGGCCGTGGTTTGTAGCTTCATGGGCTCAGGTCCATGGCCGTTGAG
TGTGGCGAAACTGAGGCACGCTGTGCGGGGACGGGGGGCGCTCACAGAAGGTAGGGGGCCTCCTGTGCCTTCAT
CCAGGCACTGCCCCGGCCTTTCCACCCCTGTTGCTAAAGCAGGTGATGACAGAGGTGATTTGATCAGCCCAGACCC
GTGCGGCACGTGGAGCCTTCGTCCGTGGGAGACCACACTGCCGAGGGGCAGGCCAGAGCCGAGGGGGCCCCTGACG
CTTCTCTGAGTGACCCCTGAAGTCGGTGCTGCTTCAGCCCTGCTGCACTGGGCTTGCCATACGTGGGGGAGCAGGGA
GCCATACGTAGTTTCTGCTGAATGTGGGAGTCACCAGGACGTCAATGCCACCTCTCACCTTCGCCACCCCTGCC
TCCCTAAGTGTGTGCTCCAGGAGGTTGCACGGCCCTGGAGAGGTTTTCGGTGGCGGGCTTGTTCGTCTCTGGC
TTCCAGAGACAGCAGGAATGAGAGCCAGGCCAGCTCAGTGAGTCCATCCCGGTGGGTGCCACGGCTTTTGCAGG
AATGGAAGCCCCGCCCCAGGAGGGCCACTGCTGGCGAGGCTTGAGCTCTTTCTGTGACCCGATCCCCCTGGTCA
CACGCTTTGCTAAGGCGGGTAGCCTAGAGCTGGAAGCCCTCCTGCCACCCAGCCACTGTGCCTCTCCAGCTGA
TGGACGAGGAAGCCTCCATTACTTGATTTTTGTTTTTATTTTATTTTGTAGACAGGGTCTCATTCTGTACCCAGG
CTGGAGTACCGTGGCAGCATCATAGCTTATTGCAGCCTCGGCCTCCAGTCTCAAGCGATCCTCCTGCCTCTGCC
TCCAGAGAAGTAGGGACCACAGATGCGTGCTACACGCCAGCTAATTTTTGTATTTGTATTTTTTGGTAGAGAT
GGGGGTGTCACTATGTTGTCCAGGCTGGTCTCTAACTCTTGGGCTCAAGTGTTTCTCCCGCTCGGCCCTCCAAA
GTGCTGGATTACAGGCGTGAGCCACCACCTGGCTGCATCCGTGATGTTAAGAAGACCCCGGTGGCAAGCTCA
CTCGGGGACTGCAGGGAACCTGCCCTTTGGGGGCAGTAGTGAGGGGTGCCAGGAGGATGGGGTGGTCAGCAGG
CAGTGATGCTGCTGTGTCTCTCAGACCCCCAGTTCCCTTCAGGATGATGGAGGATGCGGAGGCCCCGGGAG
AGCAGCTCTACCAGCAAAGCCGGGCCTACGTGGCTGCCAACCAGCGGTGCAGCAGGCGGGCAACGTGCTGAGGC
AGAGGTGTGAGCTCCTGCAGCGAGCCGGCGAGGACCTGGAGCGGGAGGTGGCCCAGATGAAGCAGGCAGCATTAC
CGGCAGCCGAGGCTGCCTCCTCAGGCTGACCTCTCGGGGCCTGCAGGCTTGGGCAGCGCACAAAGGTGGCCTGCAC
CCAGGCTTTCCCTGGGGGTCCGTGCGCCCCAGACTGGCATTACGGGGTCCCAGCCCAGTGGGTGTTGACACAG
GCGCCCCCTCCTGATGCTGGGGCTGCGGTTTCATCCGTCTCTCATTATGCCGAGTTGGTGGGACCCACCCAGCTG
GCTCCGTCTCTGCGTGACCTGAGGGCCCCACTGGGGTTCTGGAAGAGGATAGGGACATTATTGCTGTACTGTGATT
CTGTCTGTCAGCTCACAGTGGCCGTGCTCTGCAGTGGGGCCCCCTGGGAGCAGGTGCCACCTCCTTCTCTCCCGG
GCAGGCACCTCGCCTGTCCACTTCTGAGTCCAGGTGTTGGGATCGAGGTGTTAACTGTGATTCCATCCAGCGAGTG
CCCACCCAATGTGAGAGCAGCCCCGAGGGCCAGCCTGAGCCCCCTGACCCCACTTCTTCTGGGCCCCGGGCTCCTC
CCACAAGCCACGTTGATCTTCACAACGACCCCTGGGCGCTGGGGTCACCCAAGAGAAGCAGCCCTGAGACCCAGC
CAGGCTGGGCCTAGCTCCACGGCACGGGTGTCTCCAGCCACTGCCCTTGCTGGAGGACCGCTGTGAGTCACTGG
CCAGGAGCCCAGGGTGTCTGAGTCTCATAGCCACCCCTGCCAGCTGCAGCAGGTCTGGGCCTGCTTCCCTGCGG
GTTCTGGCCCTGGGGGAGGGGGCGTTAGTGCGGCGGAGGGTCTTGCCAAAGGCTTTTCATCTAAATAGCAACTT
GAGTGGAAACCTGGGCAAGGCGGCCAGAGGCTGGGCCCTGCACATAAAGCTTTCGTGTGTGTC

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FIGURE 5129

MGSKAKKRVLLPTRPAPTVEQILEDVRGAPAEDEVFTILAPEDPPVPFRMMEDAEAPGEQLYQQSRAYVAANQR
LQQAGNVLRQRCELLQRAGEDLEREVAQMKQAALPAEEAASSG

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FIGURE 5130

CGCGGGGAAACTGAGGCAGAGAGATGGGCTCCAAGGCAAAGAAGCGCGTGCTGCTGCCCACCCGCCAGCGCCCC
CCACGGTGGAGCAGATCCTGGAGGATGTGCGGGGTGCGCCGGCAGAGGATCCAGTGTTACCATCCTGGCCCCGG
AAGGTAGGGGGAGCCCGGTCCCGGGGAAAAGCGGACCTGAGACCCCGGCAGCAAGGGGACGGGAGAGAAGCACAC
CCCTAACTCCTGACCCACGCCCTGGGAACCCCGCAACATGGGCACGGTCCGTATCCTCTCCGAGTCTCCCTCT
ACTCCTCCGTAGAGTGGGACCGATTTTCAGAGGGTTCTTCTGACAGGGGTGGAGGCCGGGCGCTGTGGTTCAGGC
CTGTAAGCCCAGCACTTTCGGAGGATGAGGCGGGAGGATCGCTTGAGCCCAGGAGTTCGAGACCAGCCTGGCCAA
CATGGTGAAACCCCGTCTCTGCTAAAAATGAAAAACAAAAC

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FIGURE 5132A

GCCTGAGGTGCCCCGCCCTGGCCCCAGGAGAAATGAACCCAGCCGAGAGGATGGCGCCTGTGGGCACAGACAAGGAG
CTCAGTGACCTCCTGGACTTCAGCATGATGTTCCCGCTGCCTGTACCAACGGGAAGGGCCGGCCCGCCTCCCTG
GCGGGGGCGCAGTTCGGAGGTTTCAGGTCTTGAGGACCGGCCAGCTCAGGCTCCTGGGGCAGCGGCGACCAGAGC
AGCTCCTCCTTTGACCCCAGCCGGACCTTCAGCGAGGGCACCCACTTCACTGAGTCGCACAGCAGCCTCTCTTCA
TCCACATTCTTGGGACCGGGACTCGGAGGCAAGAGCGGTGAGCGGGGCGCCTATGCCTCCTTCGGGAGAGACGCA
GGCGTGGGCGGCCTGACTCAGGCTGGCTTCTGTTCAGGCGAGCTGGCCCTCAACAGCCCCGGGCCCCCTGTCCCCCT
TCGGGCATGAAGGGGACCTCCCAGTACTACCCCTCCTACTCCGGCAGCTCCCGGGCGGAGAGCGGCAGACGGCAGC
CTAGACACGCAGCCCCAAGAAGGTCCGGAAGGTCCCGCCGGGTCTTCCATCCTCGGTGTACCCACCCAGCTCAGGT
GAGGACTACGGCAGGGATGCCACCGCCTACCCGTCCGCCAAGACCCCCAGCAGCACCTATCCCGCCCCCTTCTAC
GTGGCAGATGGCAGCCTGCACCCCTCAGCCGAGCTCTGGAGTCCCCGGGCCAGGCGGGCTTCGGGCCCCATGCTG
GGTGGGGGCTCATCCCCGTGCCCTCCCGCCGGTAGCGGCCGGTGGGCAGCAGTGGAAGCAGCAGCACGTTT
GGTGGCCTGCACCAGCACGAGCGTATGGGCTACAGCTGCATGGAGCAGAGGTGAACGGTGGGCTCCCATCTGCA
TCCTCCTTCTCCTCAGCCCCCGAGCCACGTACGGCGGCGTCTCCAGCCACACGCCGCTGTTCAGCGGGGCGGAC
AGCCTCCTGGGCTCCCGAGGGACACAGCTGGCAGCTCCGGGGATGCCCTCGGCAAAGCACTGGCCTCGATCTAC
TCCCCGGATCACTCAAGCAATACTTCTCGTCCAGCCCTTCTACCCCGTGGGCTCCCCCAGGGCCTGGCAGGA
ACGTACAGTGGCCTCGAGCAGGAGCCCCGGTGCCTTATCGCCAGCTACGACGGGGGTCTCCACGGCCTGCAG
AGTAAGATAGAAGACCACCTGGACGAGGCCATCCAGTGCTCCGCAGCCACGCCGTGGGCACAGCCGGCGACATG
CACACGCTGCTGCCTGGCCACGGGGCGCTGGCCTCAGGTTTACCGGCCCATGTCACTGGGCGGGCGGCACGCA
GGCCTGGTTGGAGGCAGCCACCCGAGGACGGCCTCGCAGGCAGCACCAGCCTCATGCACAACCACGGGCCCTC
CCCAGCCAGCCAGGCACCTCCTGACCTGTCTCGGCCTCCCGACTCCTACAGTGGGCTAGGGCGAGCAGGTGCC
ACGGCGGCCCGCCAGCGAGATCAAGCGGGAGGAGAAGGAGGACGAGGAGAACACGTACGCGGCTGACCACTCGGAG
GAGGAGAAGAAGGAGCTGAAGGCCCCCGGGCCCGGACCAGCCAGACGAGGACGAGGACGACCTTCTCCCCCA
GAGCAGAAGGCCGAGCGGGAGAAGGAGCGCCGGTGGCCAATAACGCCCGGGAGCGGCTGCGGGTCCGTGACATC
AACGAGGCCTTTAAGGAGCTGGGGCGCATGTGCCAACTGCACCTCAACAGCGAGAAGCCCCAGACCAAATGCTC
ATCCTGCACCAGGCTGTCTCGGTCTCCTGAACTTGGAGCAGCAAGTGCAGAGCGGAACCTGAATCCCAAAGCA
GCCTGTTTGAACGGCGAGAAGAGGAAAAGGTGTCAGGTGTGGTTGGAGACCCCCAGATGGTGCTTTCAGCTCCC
CACCCAGGCCTGAGCGAAGCCCAACCCCGCCGGGCACATGTGAAGGATATGCCTCCGTGGGACGAGCCACCCG
CTTTCAGCCCTGTGCTCTGGCCCCAGAACGGCCACTCGAGACCCCGGGCTTATCCACATCCACACCTCACACAC
CTGTTGTTCAGCATCGAGCCAACACCAACCTGACAAGGTTTCGGAGTGATGGGGGCGGCCAAGGTGACACTGGGTCC
AGGAGCTCCTTGGGGCCCTGGCCTACCACTCACTGGCCTCGCTCCCCCTGTCCCCGAATCTCAGCCACCGTGTCA
CTCTGTGACCTGTCCCATGGATCCTGAAACTGCATCTTGGCCCTGTTGCCTGGGCTGACAGGAGCATTTTTTTTT
TTTCCAGTAAACAAAACCTGAAAGCAAGCAACAAAACATACACTTTGTTCAGAGAAGAAAAAATGCCTTAACTAT
AAAAAGCGGAGAAATGGAACATATCACTCAAGGGGATGCTGTGGAACCTGGCTTATTCTTCTAAAGCCACCA
GCAAATTGTGCCTAAGCGAAATATTTTTTTTAAAGAAAATAAAAACATTAGTTACAAGATTTTTTTTTTCTTAAT
GTAGATGAAAATTAGCAAGGATGCTGCCTTTGGTCTCTGGTTTTTTTTTAAGCTTTTTTTTGCATATGTTTTGTAAGC
AACAAATTTTTTTGTATAAAAGTCCCGTGTCTCTCGCTATTTCTGCTGCTGTTTCTAGACTGAGCATTGCAATTC
TTGATCAACCAGATGATTAAACGTTGTATTAAAAAGACCCCGTGTAAACCTGAGCCCCCGCTCCCCCCCCCCCC
CCGGAAGCCACTGCACACAGACAGAACGGGGACAGGCGGCGGGTCTTTTGTTTTTTTTGTATGTTGGGGGTTCTCTT
GGTTTTGTATGTGGAAGTGATGCGTGGGCGTTCCCTGATGAAGGCACCTTGGGGCTTCCCTGCCGCATCCTCT
CCCCTCAGGAAGGGGACTGACCTGGGCTTGGGGGAAGGGACGTCAGCAAGGTGGCTCTGACCCTCCAGGTGACT
CTGCCAAGCAGCTGTGGCCCCAGGGCTACCCTACACAACGCCCTCCCCAGGCCCCCTAAGCTGCTCTCCCTTG
GAACCTGCACAGCTCTCTGAAATGGGGCATTTTGTGGGACCAGTGACCCCTGGCATGGGGACCACACCCTGGAG
CCCGGTGCTGGGGACCTCCTGGACACCCTGTCTTCACTCCTTTGCCCCAGGGACCCAGGCTCATGCTCTGAACT
CTGGCTGAGAGGATGCTGCTCAGGAGCCAGCACAGGACACCCCCACCCACCCACCATGTCCCATTACACCA
GAGGGCCATCGTGACGTAGACAGGATGCCAGGGGCTGGCCAGCCTCCCCAATGCTGGGGAGCATCCTTGGGCC
TGGGGCCACACCTGCTGCCCTCCTCTGTGTGGTCCAAGGGCAAGAGTGGCTGGAGCCGGGGGACTGTGCTGGTC
TGAGCCCCACGAAGGCCTTGGGCTGTGCGTCCGACCCTGCTGCAGAACAGCAGGGTGTCCCCTCGGGCCCATCT
GTGTCCCATGTCCCAGCACCCAGGCCTCTCTCAGGTCTCCTTTCTGGTCTTTTGCCATGAGGGTAACCAGCTC

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FIGURE 5132B

TTCCCAGCTGGCTGGGGACTGTCTTGGGTTTAAACTGCAAGTCTCCTACCCTGGGATCCCATCCAGTTCCACAC
GAACTAGGGCAGTGGTCACTGTGGCACCCAGGTGTGGGCCTGGCTAGCTGGGGGCCTTCATGTGCCCTTCATGCC
CCTCCCTGCATTGAGGCCTTGTGGACCCCTGGGCTGGCTGTGTTTCATCCCCGCTGCAGGTCGGGCGTCTCCCCC
GTGCCACTCCTGAGACTCCCACCGTTACCCCCAGGAGATCCTGGACTGCCGACTCCCCCTCCCAGACTGGCTTG
GGAGCCTGGGCCCCATGGTAGATGCAAGGGAAACCTCAAGGCCAGCTCAATGCCCTGGTATCTGCCCCAGTCCAG
GCCAGGCGGAGGGGAGGGGCTGTCCGGCTGCCTCTCCCTTCTCGGTGGCTTCCCCTACGCCCTGGGAGTTTGATC
TCTTAAGGGAACCTTGCCTCTCCCTCTTGTTTTGCTCCTGGCCCTGCCCCCTAGGTCTGGGTGGGCAGTGGCCCCAT
AGCCTCTGGAACCTGTGCGTTCTGCATAGAATTCAAACGAGATTACCCAGCGGAGGAGGAAGAAACAGCAGTTC
CTGGGAACCACAATTATGGGGGGTGGGGGGTGTGATCTGAGTGCCTCAAGATGGTTTTCAAAAAAATTTTTTAA
AGAAAATAATTGTATACGTGTCAACACAGCTGGCTGGATGATTGGGACTTTAAAACGACCCTCTTTCAGGTGGAT
TCAGAGACCTGTCCTGTATATAACAGCACTGTAGCAATAAACGTGACATTTTATAACG

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FIGURE 5133

MNQPQRMAPVGTDKELSDLLDFSMFPLPVTNGKGRPASLAGAQFGGSGLEDRPSSGSWGSQDQSSSSFDPSRTF
SEGTHTESHSSLSSTFLGPGGLGGKSGERGAYASFGRDAGVGGLTQAGFLSGELALNSPGPLSPSGMKGTSQYY
PSYSGSSRRRAADGSLDTQPKKVRKVPPGLPSSVYPPSSGEDYGRDATAYPSAKTPSSSTYPAPFFYVADGSLHP
ELWSPPGQAGFGPMLGGGSSPLPLPPGSGPVGSSGSSSTFGGLHQHERMGYQLHGAEVNGGLPSASSFSSAPGAT
YGGVSSHTPPVSGADSLGSRGTTAGSSGDALGKALASIYSPDHSSNNFSSSPSTPVGSPQGLAGTSQWPRAGAP
GALSPSYDGGLHGLQSKIEDHLDEAIHVLRSHAVGTAGDMHTLLPGHGALASGFTGPMSLGGRHAGLVGGSHPED
GLAGSTSLMHNHAALPSQPGLPDLSRPPDSYSGLGRAGATAAAASEIKREEKEDEENTSAADHSEEEKKELKAPR
ARTSPDEDEDLLPPEQKAEREKERRVANNARERLRVRDINEAFKELGRMCQLHLNSEKPQTKLLILHQAVSVIL
NLEQQVRERNLNPKAACLKRREEEKVSGVVGDPQMVL SAPHPGLSEAHNPAGHM

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FIGURE 5134

CAGCAACTCCGTGGCCAAGCTGAGGAGGCCAGGGCCCGCTCCTGCTTCTCCACGGGTGTGCTCTGTGGCCCCCG
ATGGAAGGGGAAGGATCCAAGCAGGCCCTCCCTGCCAGGGCAGAAGATTCTGGAGTCCTGGGCGTTGCCTGTG
AGTGTCTGAGAGATAAGGGCCCCGCCCGCCCCGGGACCAAGGTCCTCGTCCCGTCCCTTGCTGCGCCGG
GAACTCCTGCCCCACGCAGGCTTCTGGTCTCCACACTGGGCTTGTTCTGGGTGATGAGATTCGGCTCCACCCTC
ACGGGCTGCCAGCCTCCTGCCCCGATGGGTGAGCCTCTGCTGCTGCTTCAGCAAAGGGCGGCCCCACTTCCCACAC
TGGCAGGTGGGGACAGGGAGACCCTGGGCCCTCCCCAGAGCTCATGGGTAGCTTCCACACCCTCATGCTGTCATG
AGCCTTTCTCACAGGGTCAGAAGAGTCTGCATCTGACACAGAGACCCAGTCCACATAGTCAGGGCTGGGCCAGA
GGGAGGGACTTGGGGCTGATGGGGAGGAGGCTCGGCGTGAGAGTGAGGTCTTTGCCCAAGGAGGGTATGAAAGCT
GGGGCTTTAGTGGGTGGGTAGGAGTTGGCCAGCAGAGAGCCGACGGAAGAGTTAATTTAAGTTTATGGACCTGTA
AGTGCTCCGAGTCCCAGGGTGTCTGGGTGTTAGCTGCTGACTGGTGTCTCATGAGTCGGGCTGGGTGAGGCTGG
GTTAGGAAGGGTTCACAAGCCCCCGGGTCCACTGAGGTTTGCCCCCTGAGATGATGAACCGAAGCTTTTAGAGC
TGGGCAGGCGTGAGGGTGACCCATAACTCTCTCTGCTCCTGCCTGCAGGTCTTGAGGACCGGCCAGCTCAGGCTC
CTGGGGCAGCGGCAGCAGAGCAGCTCCTCCTTGACCCAGCCGGGTAGGAGTCCCCGTGAGGCCCTGAGACCCT
GAGTTTCCTGTCCCCAGAGTTGGGGCGAGGGGTGTGGGAAACTGAGGCTGAGAGAAGGGGCCAGCCTTCCAGG
GGTTTGACTGGGGGACATGGGTTTGAGTCCTGCCTCTCCAGCTGTAATGCGGGGTGGAGGGGGGCTGTGAAG
CCCCAGCACCTCTCATCCCCACCCCATCTCCCCTAGACCTTCAGCGAGGGCACCCACTTCACTGAGTCGCACAGC
AGCCTCTCTTCATCCACATTCTTGGGACCGGGACTCGGAGGTGAGTGCCTGGCCTGGTGCCTGCTGTG
CACAGATGTGCAGACGTGGGCCTTGSCATGGTCAGTGCACGCACAGCGCCAGGCAAGTCCCAGCGTTCACCCAG
AGGGTGTGGACAGCCGAAGCCTCTGCCCGTCTGGGAGCAGCTGCGGGGAGGTGCAGGGGACGTGGCCCGGACTC
CCTGGCACGGCACTCTGCAACTAGGCTTCCCCGCCTGAGCGTAGAGGCAGGGAGGCCGTTCCAGACCCCACTTCC
TCCCTGGGATTTCTGCAGGGCTCCTCCTGCTTCCCGGGGAGGGGTGAGCCGGGCTGGCCTGTGCCCGCTGGGAAG
GAGGCGTAGGAGTTCTGGAGACTCGGGAGGGCGGCCAGAGTGTGCGGTGGTCAGAGCCCATGCCCTTCCGCAGAC
CGCCCCCGCCCTCTTTCCCTGGGGGGCCCTCCTGTTAACCGAGAGAATCGTGAAGTCAAGGTTGGGCTCGGTGGC
TCACGCCTGTAATACCAGCACTTTGGGAGAGCGAGGTGGGTGGATCACCTGAGGTGAGGAGTTTGGAGCCAGCCT
GGCCAACATGGTGAAACCCCGCTTCTACCAAAAACAAAAAATTAGCCGGTCATGGTGTGGATGCTTATAGTGC
CAACTACTCAGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGTGGAGGCTGCAGTGAGCCGAGATCACGC
CATTGCCCTCCAGCCTGGGTGATGGAGCGAGATTCCATCTT

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FIGURE 5135B

ACAAGCGGTCCCTGCGGAACCTCATGGCCGACTACCTCAGACAGATCATCCAAGGACAATGTGGATGGGCACAGCT
CCAGCGAGGACGCCGGCGCCTGCATGCACCTGGTGATCTGGAAGGTTTCGAGAAGACGCCAAGACCAAGCGATGAC
GCCTGCCCCGCTCCACCCGCTCTCCTGCCGTCCTGCTGGTCTTAGCCCCATGCCTCTTCCAAAACAGTGCAA
TAAATCTCCGGTAACCCGTCCACCTGGCCGAGGCAGCCAGAGCAGCGGGATGAGCTGGCGGCCAGAGAACGCCC
AGCCCAGCCCACCCCGCTCACGTCTGCGCACCCCTCCGCCGGTCCCCACCCTCTGCCCCCAGCCCTCTGGC
GTCTCTAGAACTGCTGCTGATGGAGACCAGGACAGAGCCGCCCCACCCGGCCCGCAGCCCTCCTGCCCCCTC
CTGCCAGGCCCTCCCTCCCGGGTGGTGGCCGGCACCTCTGCTCCTCACGTGGGTGCGGGGCGGGCTTGTCCCAG
GTTTGTGTTGAGACAGTCTTTTTTTATTTTGTATTGTTATTTTTATTATTTTAAATTTAAACCTGATGACTTGCAC
AGCATCTTTCCACCGGGAAGAGCGGGCCTGCTGCCTTCCCTCCTGCGGGGTGGGGGTGGGACAGACCCCAAGTGG
GGGCCAGGGCCACACTCAGCGCAGTGTGGGCTGGACCCGCCTCTGTGCTCCAGGGGCTGGCCGGTCTTCGGGGGC
GCCGGCTTCCACCACTCGCCGCCCCACCCTGCACTCCGTGACCTCTGAGAACCCAGCTGGCCCCCTCGTTAGCCC
CAGGGTCTGCCGTCTAGAGGGAGCCACCGGCCTCCGGACACTGTCTTCCCGCTAGAGCCCCGTCTCTCTGCG
GGGCTCTCCGGACCCCTTCCCCCTCACCTCCAGGCAGGGACAGAATAAATGTTTGTATGGATTTT

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FIGURE 5136

MLRSTGFFRAIDCPYWSGAPGGPCRRPYCHFRHRGARGSGAPGDGGEAPPAAGLGYDPYNPELPKPPAQRENGTL
GLGEEPRPDVLELELVNQAIEAVRSEVELEQRRYRELLETTREHRSAPALAPRGPNASPTVGPDEDAFPLAFD
YSPGSHGLLSPDAGYQPTPLAAPAEFGSKYSLASLDRGQGRGGGGGGGALEYVPKAVSQPRRHSRPVPSGKYVVDN
SRPPTDLEYDPLSNYSARHLSRASSRDERAAKRPRGSRGSEPYTPAPKKLCDPFGSCDARFSDSEDEAATVPGNE
PTTASTPKARADPEIKATGQPPSKEGLEAEGGGLRETKETAVQCVDGLQPPPAKPASPAQVQSSQDGGCPKEGK
PKKKKTGAPPAPSCKDGAQGKDKTKDKGRGRPVKEKPRADKKGPQASSPRRKAERPEGTKKKPSSATPVATSGKGR
PDRPARRPSPTSGDSRPAAGRGPRLQLPDRKSTKAPSGKLVERKARSLDEGASQDAPKLKKRALSHADLFGDE
SEDEAAGPGVPSVWPSALPSLSSDSDSDSDSSLGFPQAQGPCKRLKASPPSPAPSSSSSSSSSTSSAGADVDYS
ALEKEVDFDSDPMEECLRIFNESTSVKTEDRGLARQPPKEEKSEEKGLSGLTTLFPQGKRRISHLSKQGQEVPEP
PRRGPAVPPARPPPTAQEVCYLRAQQAQRASASLLQAPARLAEKSPSVHISAPGEKRRIAHIPNRLAAAPTGAKR
TLAASGSQSSNGPEPGGQQLKTRTLSGMASKTTTTIIPKRIAHSPSLQSLKKPIIPKEFGGKVPTVIRQRYLNL
IEECLKFCTSNQEAIEKALNEEKVAYDRSPSKNIYLNVAVENTLKKLRGLAPSAVPGLSKTSGRRVVSHEVVLGGR
LAAKTSFSLSRPSSPRVEDLKGAALYSRLREYLLTQDQLKENGYPFFHPERPGGAIIFTAEERPKDSSCRTCCR
CGTEYLVSSSGRCIRDEECYHWRRLRRNRVAGGWETQYMCCSAAAGSVGCQVAKQHVQDGRKERLEGFVKTFEK
ELSGDTHPGIYALDCEMSYYTYGLELTRVTVDVTVHVVYDTFVKPDNEIVDYNTRFSGVTEADLADTSVTLRDV
QAVLLSMFSADTILIGHSLESDLLALKVIHSTVVDTSVLFPHRLGLPYKRSRLRNLMDYLRQIIQDNVDGHSSE
DAGACMHLVIWKVREDAKTKR

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FIGURE 5137

TGCAACGGGGCCCCCAGGGCAGCTAGGAGGTCCTCCCCTCTCCTCTCCACCACCCCCTGCTGCCCCCCTCCCG
GGGTGGGGTTTGGGGGGGTGGAGTGGACTTCTGGGAGCCGGCCCGGGGAAAGCACCCCCTGCCCCATCCCTGCAG
ATTGGGATGAAGTGTTTCAGACAGCCATAGAGGAGTCGGGGGTTGACACGGCCCCCTGCCTCTCCCCACCCCACCCC
CACCCACCGAAAGCCATGGGAGTAGTTTCAGGGAAATGGGGGTGCAGCCCAGCCACCCCCCATTCGGGTACTCAA
TCTCAGGTGTCCACAAGTTCTGCGCACGGTAGGGGCTGCCTGGCCCCCAGACCTCGGGGGTAGAGCCAGGAGTG
GGGCAGCGTTAGGATGCCCCGAGGGGCTCCAGGTGTTGCTTCTGAGACCTGGGATGGGGAGGGAGGGGACCTCTG
GGTTCTTCCAAAGAACATTTGACTCAGTGGGGTCGGGAGGGAATCCTGGCTTATTTATTTTCTCTGTCTCGGG
TGTGGGGGCCCTAGCTCGCCCTCTCTGGGTGGGTGGGTGAGAGAGGCTGCAGGGGAGGCTGGCACCGGGCTTGGG
CCTCCAGTCCCTGCCTTGCTGACTTTGGCCGTTGCGGTATCACGTGACAATCAACTCTCCCTTAACGACGACTGC
GGCTGTTGGGCTGCGCTGCCCTCCCTGGCCTGCAGGTGGGGCCGTGGAGCCCATGCCCCCGGGGTTGCAGGCTC
TTCCGGGCCTGGGCTGCAGCCTGGCCCCGGCCCTGCTTCCCTGGCCTCCCTCCTTCTCCTGGGTGCTTGGAAGAG
GTGGGTCTGGCCCCGTGGTTGAGGTCTTGCCCTCGTGGACTGGAAGCAGAGGGCTGGCTGTGCAGCCTCCTGGGGT
AGCTCGTTTTTTTTGCACCGGGTAGAATATTTTTTCAGGCACGGATTCTTTTTTCTGGGCCCCCATGGGTGGT
CCGGCATCCTCAGGGGGTGTGAGTGTGTGTGGGGGTCTCTGAGCTGAACCTGGGTGGGGTGGGACTTGTTCCT
CGGGGGCCACCTTTGTGTCCTTGTGAGCGGTCTCTGCTGTGGCCTGGGTTGCATTTCTCTTGGGGGGGGTAT
TGAGGACCCCCAGCCTGGAATGAGAAGGGTCCCCGGTTCCATGTGACCCAGAAAGGTGGATCCCCCACTGTT
GGCTGCAGGAGTTTTTGGTACCCCTTTTGTTCAGAACCGTCTGCTCTCGCTTGGGGACAGGGGGGCTTTG
GATGGCACTGGTGTGCACCTGGACCCAGCCCCGGCCTGGCAGGATCCAGGGATGGGTGCCTGGGATCCTGGGGG
AGGGAGGCAGGGGACGCCCTTCTGGAGCTGGGCTCGGAGGGTCTGCCCCATCCAGCCCTCGGCTCTCTGTGTTT
TCTGTCCCTAGCCTCAAACCTCTTCTGGCAGCGCTAGTGAGATGCCTTAGTCTGTGGGGGTGGGTGGGGGACTG
GGGCCCCGTTTTCTTTGTGAGTCTTGGTTGGCCCCAGCCCTGGCAGGGGCTGTCTGGAGCAGGGGTAGGTAGG
GCTGTGGGTTCCAGAACTCTATAACTGGGCCCCCTCTCCAGTGTCCAGGGGCTTGGAGAGACCTGCGCCACCCCT
CCTCTCTCCAGGAGTCGCTGATCACTGGGACCTGGTTCCAGCCGTTTGCAGGGGAGGCGGCTCCGAGAGGCGTG
TGCTTTCCGTGGGTGGCGCCCCCTCCCCCGCCCTGCCTGGCCTCATCCTTGATTTAATTAATTAACAAGCCCCCT
TTTTAAACCT

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FIGURE 5138

GCGGAGGGACCGACGGACGCACGGGCGGGCGGCCGGGAGCCATGGAGCGCGGCCCTGGGGCCCCGGGGCGCGGGC
CGGGGTGGGCTTCCACGGCACGACATGGAGACCTGTGGTTGCGAGGCTCCCTGGGGCTCGGCTTGGACCGCGAT
GGGGCTGGGCCCTGGCCTCCTAACGGGGCTGCTGTCTGGGGCGGTAGCTGGGGGGGCGCTCTCCCCCTGCCCGC
GACTCGGAGCACCCCCACCCCTCCCTGCCGGGCCAGGCCGGGCGGCGTTGTTGGCGGGGGCCCCGGTGGAGGCC
CGGCTGGGCGGCGCCCGCCATGAATGGGCTGTCGCTGAGTGAGCTCTGCTGCCTCTTCTGCTGCCCGCCCTGCC
CCGGCCGCATCGCTGCCAAGCTCGCCTTCCTGCCGCCGGAGGCCACCTACTCCCTGGTGCCTGAGCCGAGCCGG
GGCCTGGTGGGGCCGGGGCCGCCCTTGGGGACCCTGAGAGCCTCCTCGGGCGCACCCGGGCGCTGGAAGCTGC
ACCTGACGGAGCGTGCCGACTTCCAGTACAGCCAGCGCGAGCTGGACACCATCGAGGTCTTCCCCACCAAGAGCG
CCCGCGGCAACCGCGTCTCCTGCATGTATGTTGCTGCGTGCCTGGTGCCAGACAAGGACACCAGGCTCAGGGAG
GCCATCCCCAGCTGGCATGGGTGGGCAGGCTGGGCGACTCCAACAACCCAGCGCCTGGTGGTTGCCTGCTGGGCG
AGAGCTGGGGCACAGGGGCTGCCCTGGCCTGCGGGTACATCCACCTTCTCGCCAGGTACACGGTCTCTTCTCGC
ACGGCAATGCCGTGGACCTGGGCCAGATGAGCAGCTTCTACATTGGCCTGGGCTCCCGCCTCCACTGCAACATCT
TCTCCTACGACTACTCCGGCTACGGTGCCAGCTCGGGCAGGCCTTCCGAGAGGAACCTCTATGCCGACATCGACG
CCGCTGGCAGGCCCTGCGCACCAGGTACGGCATCAGCCCGGACAGCATCATCTGTACGGGCAGAGCATCGGCA
CGGTGCCCCACCGTGACCTGGCCTCGCGCTACGAGTGTGCCGCGGTGGTGCTGCACTCGCCGCTCACCTCGGGCA
TGCGCGTTCGCTTCCCCGACACCAAGAAGACCTACTGCTTCGACGCCTTCCCTAACATCGAGAAGGTGTCCAAGA
TCACGTCTCCCGTGCTCATCATCCACGGCACGGAGGACGAGGTGATCGACTTCTCGCACGGGCTGGCGCTCTACG
AGCGCTGCCCCAAGGCGGTGGAGCCGCTGTGGGTGGAGGGCGCCGGGCACAACGACATCGAGCTCTACAGCCAGT
ACCTGGAGCGCCTGCGTCGCTTCATCTCCCAGGAGCTGCCAGCCAGCGCGCCTAGCGGGCGCCCCAACCGGCCG
GACCTCAGCAATAAGGCGGCCCCCGGACCTCACCCCGCGCCGGCCCCCACCCAGGGGCTGCATGTGGACCCCCG
GGCGGCCCAGGGGACCCCGCCCCGACCCAGGGGCTGTGGACGATGTACAGGCAACAGAGCTACGCTACTCCTTTCC
TTTTGGAAGCAAGAAGAAAATACGTGAAAACGGAAATTAAAGATTTAAATTTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5139

MNGLSLSELCLFCCPPCPGRIAAKLAFLPPEATYSLVPEPEPGPGGAGAAPLGTLRASSGAPGRWKLHLTERAD
FQYSQRELDTIEVFPTKSARGNRVSCMYVRCVPGARQGHQAQGGHPQLAWVGR LGDSNNPAPGGCLLGESWGTGA
ALACGYIHLLARYTVLF SHGNAVDLGQMSSFYIGLSRLHCNIFSYDYSYGASSGRPSE RNLYADIDA AWQALR
TRYGISPD SIILYGQSIGTVPTVDLASRYECAAVVLHSPLTSGMRVAFPDTKKTYCFDAFPNIEKVSKITSPVLI
IHGTEDEVIDF SHGLALYERCPKAVEPLWVEGAGHNDIELYSQYLERLRRFISQELPSQRA

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FIGURE 5140

ATGAATGGGCTGTGCTGAGTGAGCTCTGCTGCCTCTTCTGCTGCCCGCCCTGCCCCGGCCGCATCGCTGCCAAG
CTCGCCTTCCTGCCGCCGAGGCCACCTACTCCCTGGTGCCTGAGCCCAGCCGGGGCCTGGTGGGGCCGGGGCC
GCCCCCTTGGGGACCCTGAGAGCCTCCTCGGGCGCACCCGGGCGCTGGAAGCTGCACCTGACGGAGCGTGCCGAC
TTCCAGTACAGCCAGCGCGAGCTGGACACCATCGAGGTCTTCCCCACCAAGAGCGCCCGCGGCAACCGCGTCTCC
TGCATGTATGTTTCGCTGCGTGCCTGGTGCCAGGTACACGGTCCTCTTCTCGCACGGCAATGCCGTGGACCTGGGC
CAGATGAGCAGCTTCTACATTGGCCTGGGCTCCCGCCTCCACTGCAACATCTTCTCCTACGACTACTCCGGCTAC
GGTGCCAGCTCGGGCAGGCCTTCCGAGAGGAACCTCTATGCCGACATCGACGCCGCCTGGCAGGCCCTGCGCACC
AGGTGA

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FIGURE 5141

GGGATTTGCACGGCAGCAGAGTCACCGTGGAGAGGCCAGGGTATCACAACTTATGGATTTTGACAAGAAAGGAG
GGAAAGGGGAGACGGAGGAGGGCCGGAGAATGTCCAAGGCCGGCGGGGCGGAGCAGCCACGGCATCCGGAGCT
CGGGGACCAGCTCGGGGGTCCCTGATGGTGGGCCCCAACTTCCGCGTCGGCAAGAAGATCGGCTGCGGCAACTTCG
GGGAGCTCCGCCTAGGAAAGAATCTCTATACAAATGAATACGTGGCTATCAAATTGGAGCCGATCAAGTCCCCGGG
CCCCGCAGCTGCACCTGGAGTACCGGTTCTACAAGCAGCTCAGCGCCACAGAGGGCGTCCCTCAGGTCTACTACT
TCGGTCCGTGCGGGAATTACAACGCCATGGTGTCTGGAGCTGTGGGGCCAGCCTGGAGGACCTGTTTCGACCTGT
GCGACCGGACCTTCACGCTCAAGACGGTGTCTGATGATCGCCATCCAGCTGATCACGCGCATGGAGTATGTGCACA
CCAAGAGCCTAATCTACCGGGACGTGAAGCCCCGAGAACTTCCTGGTGGGCCGCGCCGGGGACCAAGCGGCAGCATG
CCATCCACATCATCGACTTCGGGCTGGCCAAGGAGTACATCGACCCGAGACCAAGAAGCACATCCCGTACCGCG
AGCACAAGAGCCTGACGGGCACGGCGCGCTACATGAGCATCAACACGCACCTGGGCAAGGAGCAGAGCCGCCGCG
ACGACCTGGAGGCGCTGGGCCACATGTTTCACTTCCCTGCGCGGCAGCCTCCCTGGCAGGGGCTCAAGGCCG
ACACGCTCAAGGAGCGGTACCAGAAGATCGGGGACACCAACGCGCCACGCCATCGAGGTGCTCTGCGAGAAT
TCCAGAGGAGATGGCCACGTACCTGCGCTATGTGCGGCGCTGGACTTCTTCGAGAAGCCCGACTATGACTACC
TGCGGAAGCTCTTCACCGACCTCTTCGACCGCAGTGGCTTCGTGTTGACTATGAGTACGACTGGGCCGGGAAGC
CCCTGCCGACCCCCATCGGCACCGTCCACACCGACCTGCCCTCCAGCCTCAGCTCCGGGACAAAACCCAGCCGC
ACAGCAAAAACAGGCGTTGAACTCCACCAACGGGGAGCTGAATGCGGACGACCCACGGCCGGCCACTCCAACG
CCCCGATCACAGCGCCTGCAGAGGTGGAGGTGGCCGATGAAACCAAATGCTGCTGTTTCTTCAAGAGGAGAAAGA
GAAAATCGCTGCAGCGACACAAGTGAACCTGGGCGCGTGCAGCCCCCTGAATCTTCTCCGTGCAGCCCCCTGGGG
CGCGACCTTGTGCGAGGCCCTCGGGGCCACCCACAGCGGCCAGGGCCAGACCCTGGCTGGAAGCCAGAACGCA
GACTGCAGGGGCCGCGCCTGGCTCAGGCGGCCCCACCCCGGGACGTGGGGTCACTTCCTTCATGTAAGACTTTG
GCCGAAATTTCTACACCTGTGTCTAGTCTCCCTCCCAAGAGCATTAACTATTTAAACAAGGAAAAGAGGAAAA
AAAAACAGAGGCCCGCCCTACCCCACTCCTGCCCTCCGTTTCTTTGCTGAAGTGAGTAGTGTGATCCTGGAGG
CCCCCGGCCTGGCCCCGCCCCGCCAGCCGCCCGCTAGCGTCATAAAGTCCAGCTTGTCTCCCTCGATCCAAA
GGCCGTTTTCTCGAGGGGAGGGCAGGCCCGGCTGGAGGGGTGCTGTGGAGCTGTCTTGCCAGGCCCTCCTGGG
AGGGGGACAGGCATTGTTGCCAGGGGTGAGGCCGTGCCCAGGCCTCCCGAAACCAAAGGGGAAGGCAGGGGTG
GGCCGTGGCTGAAGCCGGCTCCCCAACCAAAATGCTGCACCAAAGCTCGGGCGCCGCGGGCACGGCTGCTGCAG
TCTCTTCCAGCCTGGCCCTGGCAAGGGGCGGGTGGGCGCTGCCAGGCGGGTGTCTTCGACGCACTTGCTCCCCG
GAGGCTGCGCCCCGGCGCCTGGAACCCGAGGTGGGAGGACCGTTGGTGTACCCCTGCTCGGCCCTCAGCCCTGC
CGCGTGGGGCGCGTGGGCACGGAGCTTCTGCTCTGCTCCGACACCCGGCAAGCAGCCGGAGACAAAACGCCTT
AAAGCCCCCGGCCAGCCCTGCAGGTATATTGCAGGGGCTGGGGCGGCCCTGGACTGGCGGGCGGTTCCCCAG
TGGGTGCCCTGGAGGCTGCCGGGCAGAGTGGAGCAGCTTGGGGCGGTGCCAGGGCGGTGGCTGTGAGTCTAGT
TTTGTCTTACCAAGTGTACAGAAATGGCATTACGTTTCTCTGATGCTCCCTTGAAGCCATAGAATTTAGGGGC
TTTTTTAAAAAATAAAAGAAAAATGAAACCAAAAAAAAAAAAAA

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FIGURE 5142

MDFDKKGGKGETEEGRMSKAGGGRSSHGIRSSGTSSGVLVGPVFRVGGKIGCGNFGELRLGKNLYTNEYVAIK
LEPIKSRAPQLHLEYRFYKQLSATEGVPQVYYFGPCGNYNAMVLELLGPSLEDLFDLCDRTFTLKTVMIAIQLI
TRMEYVHTKSIIYRDVKPENFLVGRPGTKRQHAIHIIDFGLAKEYIDPETKKHIPYREHKSLTGTARYMSINTHL
GKEQSRRDDLEALGHMFMYFLRGSLPWQGLKADTLKERYQKIGDTKRATPIEVLCEMFPEEMATYLRVRRLDFF
EKPDYDYLRLKLFDFDRSGFVFDYEDWAGKPLPTPIGTVHTDLPSPQLRDKTQPHSKNQALNSTNGELNADD
PTAGHSNAPITAPAEVEVADETKCCCFKRRKRKSLQRHK

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FIGURE 5143

ATGGCGGCGGGTGGGAGCGGCGGGCGTGCCTCGTGCCCGCGGGGGTTCGGGGTCGGCCCGGGCACGGGGGGCAGT
CCCGGGCCAGCGCCAAACGCCGCCACCCCGGCCCCGGCAACCGGCCCGCCGCCGCCGCCGCCGCCGCCGCC
GCCGCCGCCGCCCTGGGCGGACGCCGCCGCCGCCGCCGCCGGGACAGACGCGCAGGCCGCCGGGCGCGGGAG
CGGGCGGAGGAGCGGCGGGGCCGGGCGGCGCTGCAGCGCAGGCCGCGTACAACCTGGCAGGCCAGCAAG
CCCACCGTGCAGGAGCGCTTCGCCTTCTTCAACAACGAGGTGCTGTGCGACGTGCACTTCTTGGTGGGCAAG
GGGCTCAGCTCGCAGCGCATCCCCGCGCACAGGTTCTGTGCTGGCCGTGGGCAGCGCCGTCTTTGATGCCATGTTT
AACGGGGGAATGGCCACAACATCCACGGAGATTGAGCTGCCCGACGTGGAACCCGCCGCCCTTCTCGCACTGCTC
AAGTTTCTCTACTCGGACGAGGTGCAGATTGGCCCCGAGACGGTGATGACCACGCTATACACGCCAAGAAGTAC
GCGGTGCCAGCGCTCGAGGCCATTGCGTGGAGTTCTGAAGAAGAACCTGCGAGCCGACAACGCCCTTCATGCTG
CTCAGCGAGGCGGACTCTTCGATGAACCGCAGCTGGCCAGCCTGTGCCTGGAGAACATCGACAAAAACACTGCA
GACGCCATCACCGCGGAGGGCTTACCGACATTGACCTGGACACGCTGGTGGCTGTCTGGAGCGCGACACACTG
GGCATCCGTGAGGTGCGGCTGTTCAATGCCGTTGTCCGCTGGTCCGAGGCCGAGTGTACGCGCAGCAGCTGCAG
GTGACGCCAGAGAACAGGCGGAAGGTTCTGGGCAAGGCCCTGGGCCTCATTGCTTCCCGCTCATGACCATCGAG
GAGTTCGCTGCAGGTCCCGCACAGTCGGGCATCCTGGTGGACCGCAGGTGGTCAGCCTCTTCTGCACTTCACC
GTCAACCCCAAGCCACGAGTGGAGTTTATTGACCGGCCCGCTGCTGCCTGCGTGGGAAGGAGTGCAGCATCAAC
CGCTTCCAGCAGGTGGAGAGTCGCTGGGGCTACAGCGGGACCACTGACCGCATCAGGTTCTCAGTCAACAAGCGC
ATCTTCGTGGTGGGATTGGGCTGTATGGATCCATCCACGGGCCCACCGACTACCAAGTGAACATCCAGATTATT
CACACCGATAGCAACACCGTCTTGGGCCAGAACGACACGGGCTTCAGCTGCGACGGCTCAGCCAGCACCTTCCGC
GTATGTTTAAAGGAGCCGGTGGAGGTGCTGCCAACGTCAACTACACGGCCTGTGCCACGCTCAAGGGCCCAGAC
TCCCACTACGGCACCAAAAGGCCTGCGCAAGGTGACACACGAGTCGCCCACCACGGGCGCCAAGACCTGCTTACC
TTTTGCTACGCGGCCGGGAACAACAATGGCACATCCGTGGAGGACGGCCAGATCCCCGAGGTCACTTCTACACC
TAGGCTGCCCCGACACCGACACCGCCCTCCCTCCGCGGGGATAGCCGAGCCCCAGGCCATCATCTGCTGCTGGG
TCCCCCACCACGCGGTGCCAGGCCAGTGTCCCCAGGCCGTCTGTCCACTCCATGCCACCTTTCTCAGCATCA
GGACGGGGTTGCCCTGTGTTTACCACGAGTGTGGCTGCTGGATCAGGGCAGCCGGGGAGGTGGCCAGGCCAGTGG
CCAGGCCCTGTGGAGACAATCCCTCAGGACTAGGGACAGGGCTGTGCCGGCCTGGGCCAGGGCCCACGGACCCGC
AGCTCAGGGCGCCTGCCCCAGTCTGTGCCGGCGGTGCGCCGCGGGCGTCCCTCGCGTCTCTTCACTGCACATTG
CAATGCATTTGCGATTCCCATTTCTCTGCTAGGAGCCAGCCTGGGTGGCGCTGCTCCCAGAGCCGTGGGTCCCAG
ACCTTGCGTTTCTTTTGTTCCTGTCCGTTTATCAGGACACGGGCCCCACCTGTACGTGCCCCAGGGCCACCCAAG
CCCAGCCTGCGGGGCGTTCCCACTGCCTGGATGCCGGCTTGAGTTCTGCGCACGCAGGATTCACTGTGGGGACGG
CCCCTGCCGGATAGCCCTAGCCCTGGCCCAGGTGGTGAGCGGTTTGAGTGTCCGTTCTCATCCACCTGATGGGC
CCAGATAAAGGCCCCCGCTGTCCAGCCTCCCTGGACGGCCCTCGCGGTCCCTGCAGCCCAAGATGGGACTCAGAC
CCTGTGCCCCAGAGCTCCCTGCGCAGAATGGGGCCCCAGCCGGCCCCGACCGGTCCAGGAGCACTGCTCGCC
TGTACATACTGTTGCCCTAGCCACCTGGTGCCGTGGGAGCCACCCCCAGGTGCTGGGGGCACAGCCCCCTCCCA
CTCCGGCCACGCCCCACCCACCCCGCTGTTTCTGCCCTGTGACTCCTGGAACCTGCGTCTCCCCAAAGCCAT
GGGAGGGGTGCTCTCTCAGACCATGCCCCAGATGATTTTTTAAATAAAGAAACAATGCACCTGCAAAAAA
AAAAATAGAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5144

MAAGSGGRASCPPGVGVPGTGGSPGPSANAAATPAPGNAAAAAAAAAAAAAPGPTPPAPPGPGTDAQAAGAE
RAEEAAGPGAAALQREAAYNWQASKPTVQERFAFLFNNEVLCDVHFLVGKGLSSQRIPAHRFVLAVGSAVFDAMF
NGGMATTSTEIELPDVEPA AFLALLKFLYSDEVQIGPETVMTTLYTAKKYAVPALEAHCVEFLKKNLRADNAFML
LTQARLFDEPQLASLCLENIDKNTADAITAEGFTDIDLDTLVAVLERDTLGIREVRLFNAVVRWSEAEQRRQLQ
VTPENRRKVLGKALGLIRFPLMTIEEFAAGPAQSGILVDREVVSLFLHFTVNP KPRVEFIDRPRCCLRGKECSIN
RFQQVESRWGYSGTSDRIRFSVNKRIFVVGFGLYGSIHGPTDYQVNIQIIHTDSNTVLGQNDTGFSCDGSASTFR
VMFKEPVEVLPNVNYTACATLKGPDSHYGTKGLRKVTHESPTTGAKTCFTFCYAAGNNNGTSVEDGQIPEVIFYT

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FIGURE 5145

TATTTATAAACACACTCACAGGGCCAGATTTGGGCCACGGGCCATAGTTGCCAGCCCGGCTTTAACTGCTGGTCC
TCACGTTAGTCTCACTGCCTCCTGCAGGGTGGGCATGTGGGTGTCGTGTTACGCAGCCCCCTTCCTCCACCCAC
AGACACGCTGGTGGCTGTCCTGGAGCGCGACACACTGGGCATCCGTGAGGTGCGGCTGTTCAATGCCGTTGTCCG
CTGGTCCGAGGCCGAGTGTGACGCGCAGCAGCTGCAGGTGACGCCAGAGAACAGGCCGGAAGGTTCTGGGCAAGGC
CCTGGGCCTCATTGCTTCCCGCTCATGACCATCGAGGAGTTCGCTGCAGGTAACAGAGCTCGGGCTCAGGGGCT
GGTTTGGGAGGGGAGTGGCACACAGGTGGGCATCTGGGTACCGAGGATAGTGCCCCGAGTTCACTGCGGAAAGC
CTGGCAGATGCCTGGCATATACAGATAGGAAGAAACCTGGCTTGTGAGGACGCGTCCACAGGGCCATCTGTTAGC
CCCGGCCCGGCTCTGTCCCCACCGTGCACACTGCCAGACCCCGCCTCTCGTGTCTGTCCAGCTGTTTTGGTGGCA
TCTTCCCAGGAGGGAAGGGAGTCCCCGTCTCGCGCCCTTGTGCTACCTGCTGGTGCAGGTACCAGTGTCTGTGAC
GAGCTCAGGAGGGCTCTGACATGGCCGGGGTGGCTGTGATGCGCCCGAGTGGGCCTTGGGGTCCCCTGCTGCAGG
GCCTGGGTTCCAGGGTGACGTGAAGGGGCAGCGCTAACGATGCCTCCTGCCCTCGTGGCTGCTCACTGCCTGACG
CCATCCAGCTCTGGAGCAAAACAGGCCTGGAACTTTCCAGAAGGGGCTGGGACAGAGCCCTGGGGCTGGTGCACA
CTCGCCGCTGTGGCCTTCCCCAGGTCCACGCGGCC

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FIGURE 5146

GCTGGCGGGGCCCCGACAGAAGATGGTGCAGAAGAAACCAGCCGAACCTTCAGGGTTTCCACCGTTCGTTCAAGGG
GCAGAACCCCTTCGAGCTGGCCTTCTCCCTAGACCAGCCCGACCACGGAGACTCTGACTTTGGCCTGCAGTGCTC
AGCCCGCCCTGACATGCCCCGCCAGCCAGCCATTGACATCCCGGACGCCAAGAAGAGGGGGCAAGAAGAAGAAGCG
CGGCCGGGCCACCGACAGCTTCTCGGGCAGGTTTGAAGACGTCTACCAGCTGCAGGAAGATGTGCTGGGGGAGGG
CGCTCATGCCCCGAGTGCAGACCTGCATCAACCTGATCACCAGCCAGGAGTACGCCGTCAAGATCATTGAGAAGCA
GCCAGGCCACATTCGGAGCAGGGTTTTTCAGGGAGGTGGAGATGCTGTACCAGTGCCAGGGACACAGGAACGTCCCT
AGAGCTGATTGAGTTCTTCGAGGAGGAGGACCGCTTCTACCTGGTGTGTTGAGAAGATGCGGGGAGGCTCCATCCT
GAGCCACATCCACAAGCGCCGGCACTTCAACGAGCTGGAGGCCAGCGTGGTGGTGCAGGACGTGGCCAGCGCCTT
GGACTTTCTGCATAACAAAGGCATCGCCACAGGGACCTAAAGCCGGAAAAACATCCTCTGTGAGCACCCCAACCA
GGTCTCCCCCGTGAAGATCTGTGACTTCGACCTGGGCAGCGGCATCAAACCTCAACGGGGACTGCTCCCTATCTC
CACCCCGGAGCTGCTCACTCCGTGCGGCTCGGCGGAGTACATGGCCCCGGAGTTAGTGGAGGCCTTCAGCGAGGA
GGCTAGCATCTACGACAAGCGCTGCGACCTGTGGAGCCTGGGCGTCACTTGTATATCCTACTCAGCGGCTACCC
GCCCTTCGTGGGCCGCTGTGGCAGCGACTGCGGCTGGGACCGCGCGAGGCCTGCCCTGCCTGCCAGAACATGCT
GTTTGAGAGCATCCAGGAGGGCAAGTACGAGTTCCCCGACAAGGACTGGGCCCACATCTCCTGCGCTGCCAAAGA
CCTCATCTCCAAGCTGCTGGTCCGTGACGCCAAGCAGAGGCTGAGTGCCGCCCAAGTCTGCAACACCCCTGGGT
TCAGGGGTGCGCCCCGGAGAACACCTTGCCCACTCCCATGGTCTGTCAGAGGTGGGACAGTCACTTCCTCCTCCC
TCCCCACCCCTGTGCGCATCCACGTGCGACCTGGAGGACTGGTCAGAACCGTTACTGTGAATGAGTGAAGATCCTG
GAGGACCCTGGCCCCAGGCCAGTCCCATCGCTGGGGGACGGTGAACGGCCATGTGTTAATGTTACGATGTTTTT
AAAAGACAAAAAAAAAAAAAAAAACCTCAAAAGTTTTTTTTAAAGTGGGGGAAAAACATCCAAGCACTTTAATTCCA
ATGTACCAGGTGAACTGACGGAGCTCAGAAGTTTTCTTTACACCAACTGTCAATGCCGGAATTTTGTATTCTGT
TTTGTAAGATTTAATAAAAGTCAAAAAACTTGCAAAAAAAAAAAAAA

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FIGURE 5147

MVQKKPAELQGFHRSFKGQNPFEAFSLDQPDHGDSDFGLQCSARPDMPASQPIDIPDAKKRGKKKKRGRATDSF
SGRFEDVYQLQEDVLGEGAHARVQTCINLITSQEYAVKIIKQPGHIRSRVFREVELYQCQGHRNVLELIEFFE
EEDRFYLVFEKMRGGSILSHHKRRHFNELEASVVVQDVASALDFLHNKGIAHRDLKPENILCEHPNQVSPVKIC
DFDLGSGIKLNGDCSPISTPELLTPCGSAEYMAPELVEAFSEEASIYDKRCDLWSLGVILYILLSGYPPFVGRCG
SDCGWDRGEACPACQNMLFESIQEGKYEFPDKDWAHISCAAKDLISKLLVRDAKQRLSAAQVLQHPWVQGCAPE
TLPTPMVLQRWDSHFLLPPHPCRIHVRPGGLVRTVTVNE

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FIGURE 5148A

CCAAGCCTGAGTGTTAATTTAACTCTATGTTGTCCGCCGTGTAAACATCCGAGGTCATTTGTTGCGTTGAATTAT
CTGACCATCCTTTTTTACTGTGACTCTTCCATTCTCTTTGGCAAGAAGTCCCTTCTCGCCCCCAAACCAGCAA
GGGACTCCCCACCTGGGTCTGTGCCCTGCCCGCGCTGGGGGCCGAGTCCTTGAATGTGGCTTCAGGGGCTCCT
GTCCTGACGGTTGCGTCCGGGGGAGGGGAAGGAAGGGCCGCTGTCGCCAAGGTTTTCTCTCCAGAACCCACAGT
GGGCCGCCGCGATGGCCCTCAAGATGGTGAAGGGCAGCATCGACCGCATGTTGACAAGAATCTGCAGGACTTGG
TCCGCGGCATCCGTAACCACAAGGAGGACGAGGCAAAATACATATCTCAGTGCATTGATGAGATCAAGCAGGAGC
TGAAGCAGGACAACATAGCGGTGAAGGCGAACGCGGTCTGCAAGCTGACGATTTTACAGATGTTGGGATACGACA
TCAGCTGGGGCCGCTTCAACATCATAGAAGTGATGAGTGCCTCCAAGTTCACCTTCAAGCGAATTGGCTACCTCG
CTGCTTCCCAGAGCTTTCACGAAGGCACCGACGTCATCATGCTGACCACCAATCAGATCCGTAAGGACTTGAGCA
GCCCCAGCCAGTACGACACAGGTGTTGCACTGACGGGTCTGTCCTGCTTCGTCACCCAGACCTTGCCAGAGACC
TGGCAATGACATCATGACACTGATGTCACACACCAAGCCCTACATCAGGAAGAAGGCTGTGCTGATCATGTACA
AGGTGTTCTTGAAGTACCCGAGTCGCTGCGCCCTGCCTTTCCCGGCTGAAGGAGAAGCTGGAGGACCCGACC
CCGGGGTTCAGTCGGCTGCCGTCAATGTCATCTGCGAGCTGGCCAGACGCAACCCTAAGAACTACCTGTCCCTGG
CCCCGCTCTTTTTCAAGCTGATGACGTCCTCCACCAACAACCTGGGTCTCATCAAGATCATCAAGCTGTTGCGTG
CTCTTACTCCTTTGGAACCGCGGCTGGGCAAGAAGCTGATCGAGCCCTCACCAATCTCATCCACAGCACGCTCTG
CCATGTCTCTCCTCTATGAATGTGTGAACACCGTGATTGCACTGCTCATCTCGCTGTCTCCGGCATGCCCAACC
ACAGCGCCAGCATCCAGCTTTGTGTTTCAAGAAATTAAGGATATTGATCGAGGACTCCGATCAGAACTTGAAGTACC
TGGGGCTGCTGGCAATGTCCAAGATCCTGAAGACCCACCCCAAGTCCGTGCAGTCCCAAGGACCTCATCTGC
AGTGCCTGGACGACAAGGACGAGTCCATCCGGCTGCGGGCCCTGGACCTGCTCTATGGGATGGTGTCCAAGAAGA
ACCTGATGGAGATCGTGAAGAAGCTGATGACCCACGTAGACAAGGCAGAGGGTACCACCTACCGTGACGAGCTGC
TCACCAAGATCATTGACATCTGCAGCCAGTCCAACCTACCAGTACATCACCACCTTCGAGTGGTACATCAGCATCC
TGGTGGAGCTGACCCGGCTGGAGGGCACACGGCACGGCCACCTCATCGCCGCCCAAATGCTGGACGTGGCCATCC
GCGTGAAGGCCATCCGCAAGTTTCGCCGTGTCCAGATGTCTGCGCTGCTTGACAGTGCACACCTGCTGGCCAGCA
GCACCCAGCGGAACGGGATCTGTGAGGTGCTGTACGCTGCCGCTGGATCTGCGGGGAGTTCTCAGAGCATCTGC
AGGAACCACACCACACTTTGGAGGCCATGCTGCGGCCAGAGTACCACGCTGCCAGGCCACATCCAGGCCGTGT
ATGTGCAGAACGTGGTCAAGCTCTACGCCCTCATCTGCAGCAGAAGGAGCAGGCCGGGGAGGCAGAGGGCGCTC
AGGCCGTACCCAGCTCATGGTGGACCGGCTGCCCCAGTTTGTGTCAGAGCGCAGACCTGGAGGTGCAGGAGCGGG
CGTCTCTCTTTGCTGGGGAGCTGAACCCAGTGGCCCCCAAGGCCAGAAGAAGGTTCCAGTCCCCGAAGGCCTGG
ACCTGGACGCCTGGATCAATGAGCCACTCTCGGACAGCGAGTCAGAGGACGAGAGGCCAGGGCCGTCTTCCACG
AGGAGGAGCAGCGCGTCCCAAGCACCGGCCGTGCGAGGCGGACGAGGAGGAGCTGGCTCGGCGCCGAGAGGCCCC
GGAAGCAGGAGCAGGCCAACAAACCCCTTCTACATCAAGAGCTCGCCATCGCCACAGAAGCGGTACCAGGACACCC
CGGGCGTGGAGCACATTCCCGTGGTGCAGATTGACCTCTCCGTCCCCCTGAAGGTTCCAGGGCTGCCTATGTCTAG
ATCAGTATGTGAAGCTGGAGGAGGAGCGGCGGCACCGGCAGAAGCTGGAGAAGGACAAGAGGAGGAAAAAGAGGA
AGGAGAAGGAGAAGAAGGGCAAGCGCCGCCACAGCTCGCTGCCACGGAGAGCGACGAGGACATCGCCCCTGCCC
AGCAGGTGGACATCGTCACAGAGGAGATGCCTGAGAATGCTCTGCCAGCGACGAGGATGACAAAGACCCCAACG
ACCCCTACAGGGCTCTGGATATTGACCTGGATAAGCCCTTAGCCGACAGCGAGAACTGCCTATTAGAAACACA
GAAACACCGAGACCTCAAAATCCCTGAGAAGGACGTTCCCATGGTAGAAAAGAAGAGCAAGAAACCCAAGAAGA
AAGAGAAAAACACAAAGAGAAAAGAGAGAGACAAGGAGAAGAAGGAGAAGGAGAAGAAGAAATCTCCCAAGC
CTAAGAAGAAGAACACAGGAAGGAGAAGGAGGAGCGGACCAAGGCAAGAAGAAGTCCAAGAAGCAGCCTCCAG
GCAGCGAGGAGGACGCGGGGAGCCGGTGCAGAATGGCGCGCCAGAGGAGGAGCAGCTCCCGCTGAGTCCAGCT
ACTCCCTCTCGCTGAAAATTCTATGTTAAATGACCTGTGACATCCGGGGCAGTCTGCAGGAGGACAGCCAGG
TCACTGTGGCCATCGTGTGGAGAACAGGAGCAGCAGCATCCTCAAGGGCATGGAGCTCAGCGTGTGGACTCAC
TCAATGCCAGGATGGCCCGGCCGAGGGCTCCTCCGTCCACGATGGCGTCCCCGTGCCTTTCCAGCTGCCCCAG
GCGTCTCCAACGAAGCCAGTATGTGTTTACCATCCAGAGCATCGTCATGGCGCAGAAGCTCAAGGGGACCCGTG
CCTTCATTGCCAAGAATGACGAGGGTGCAGCCACGAGAAGCTGGACTTCAGGCTGCACCTCAGCTGCAGCTCCT
ACTTGATCACCCTCCCTGCTACAGTGACGCTTTGTAAAGTTGCTGGAGTCTGGGGACTTGAGCATGAGCTCAA
TCAAAGTCGATGGCATTCCGATGTCTTCCAGAATCTTCTGGCGAAGATCTGTTTTACCACCATTTTTCCGTTG

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FIGURE 5148B

TGGAGCGAGTGGACTCCTGCGCCTCCATGTACAGCCGCTCCATCCAGGGCCACCATGTCTGCCTCCTGGTGAAAA
AGGGTGAGAACTCTGTCTCAGTCGACGGGAAGTGCAGTGA CTCCACGCTACTGAGCAACTTGTTAGAAGAGATGA
AGGCGACGCTGGCCAAGTGTGAGAGCTGCCTGCGAGCCCCGCACCACCCGCGGAGCACGTACCCAGGGACCGC
AGCCCTGACGTGTCTCGCCTCTCCTCAGTCGTGTGTACTGTACCCAAGCCTGAGTGTTAATTTAACTCTATGTTG
TCCGCCGTGTAGACATCCGAGGTCA TTTGTTGCGTTGAATTATCTGACCATCCTTTTTTACTGTGACTCTTCCCA
TTCTCTTTGGCAAGAAGTCCCCCTTCTCGCCCCCAAACCAGCAAGGGACTCCCCACCTGGGTCTGTGCCCTGCCC
CGCGCTGGGGGCCGAGTCCTTGAATGTGGCTTCAGGGGCTCCTGTCTGGGCCAGGGCCTGATGGGCACCACGTG
AGGGGCAC TTGGTGGACAGGGCGGGGCTGACGTGGCCTCCTCTGGGGTCGCTGCTTTTGACCCAAAGGTCCTGA
CGGTTGCGTCCGGGGGAGGGGAAGGAAGGGCCGCTGTGCGCAAGGTTTTCTCTCCAGAACCCACAGTGGGAAAG
CGGTCTTGCCAGGCGTTGTCCATTGTCAGTGTGCTCGTGGGCTGGTGA CTGGGTCTTGGGATCCCAGGCCACGCG
CCAGCCAGGCTGTGGGCAGGGCGGGGCCAGGGACGCCAAAGAGAGGTTGCAGTCAGAACCGTGAGCGGGGTGGGT
TGAGGCCTCTCTGCCACCCGTCTTCTGGTCAGCAGAAGTGCATCTCGGCTTGGGTTTGGGGTGGTCCGCATCCC
CTGCTTGCCACTATGCGCACCAAGGTTTCCCCACATCCTTCCAGCACCCCTTAGGAAGGCCCAGGCAGGGCCTGG
AAGCAGCGGACCTGGGCTGTTCTGTGTTGAAGGAGTGTGCCAGTGCCCTTGGGCAGGACCTGTGAGAGCCACCT
CACAGGCAGAGCCCCCACCAGGCAGGGCAAGGAGACTCCGCTCACTCCCCACGGCCAGCGTGGGCACAGGACTGA
CCCTTCTTCAGAGATAATGACATTTTATCTTCTCCTTTTGATGAAAAC TGTCACCTTTAGCATGTAATCCATTACA
GAATCCCATGCAGTGATTCCAGGATTTGAAATTGTATGATGTGTTACATAAGAATTTATTTGCTATCGACATTCC
CGTATAAAGAGAGAGACATATCACGCTGCTGTCATGATTTTGTGTCAAGATGATCCAATAAAGTTGTAAACAGG

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FIGURE 5149

MALKMVKGSIDRMFDKNLQDLVRGIRNHKEDEAKYISQCIDEIKQELKQDNIAVKANAVCKLTYLQMLGYDISWA
AFNIEVMSASKFTFKRIGYLAASQSFHEGTDVIMLTNQIRKDLSSPSQYDTGVALTGLSCFVTPDLARDLAND
IMTILMSHTKPYIRKKAVLIMYKVFLKYPESLRPAFPRLKEKLEDPDPGVQSAAVNVICELARRNPKNYLSLAPLF
FKLMTSSTNNWVLIKI IKLFGALTPLEPRLGKKLIEPLTNLIHSTSAMSLLYECVNTVIAVLISLSSGMPNHSAS
IQLCVQKLRILIEDSDQNLKYLGLLAMSKILKTHPKSVQSHKDLILQCLDDKDESIRLRALDLYGMVSKKNLME
IVKKLMTHVDKAEGTTYRDELLTKIIDICSQSNYQYITNFEWYISILVELTRLEGTRHGHLIAAQMLDVAIRVKA
IRKFAVSQMSALLDSAHLLASSTQRNGICEVLYAAAWICGEFSEHLQEPHHTLEAMLRPRVTTLPGHIQAVYVQN
VVKLYASILQQKEQAGEAQAQAVTQLMVDRLPQFVQSADLEVQERASCILQLVKHIQKLQAKDVPVAAEEVSALF
AGELNPVAPKAQKKVPVPEGLDLDAWINEPLSDSESEDERPRAVFHEEEQRRPKHRPSEADEEEELARRREARKQE
QANNPFYIKSSPSQKRYQDTPGVEHIPVVQIDLSVPLKVPGLPMSDQYVKLEEERRHRQKLEKDKRRKKRKEKE
KKGKRRHSSLPTESDEDIAPAQQVDIVTEEMPENALPSEDDDKDPNDPYRALDIDLDKPLADSEKLP IQKHRNTE
TSKSPEKDVPMEKKS KKKPKKKKEKKHKEKERDKEKKKEKEKKKSPKPKKKKHRKEKEERTKGKKKSKKQPPGSEE
AAGEPVQNGAPEEEEQLPPESSYSLLAENSYVKMTCDIRGSLQEDSQVTVAIVLENRSSSILKGMELSVLDSLNR
MARPQGSSVHDGVPVFPFQLPPGVSNEAQYVFTIQSIVMAQKLKGTLSFIAKNDEGATHEKLDLFRHFSCSSYLIT
TPCYSDAFAKLLESGLSMSSIKVDGIRMSFQNLAKICFHHHFSVVERVDSCASMYRSRISQGHVCLLVKKGEN
SVSVDGKCS DSTLLSNLLEEMKATLAKC

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FIGURE 5150A

GCGGCCGTCCACTGGACTCCTGCGCCATATCCTGCAGCAGGTCTACAACCACTCGGTGACCGACCCCGAGAAGCT
CAACAACCTACGAGCCCTTCTCCCCGAGGTGTACGGGGAGACCTCCTTCGACCTGGTGGCCCCAGATGATTGATGA
GATCAAGATGACCGACGACGACCTGTTTGTGGACTTGGGGAGCGGTGTGGGCCAGGTGCTGCTCCAGGTTGCTGC
TGCCACCAACTGCAAACATCACTATGGCGTCGAGAAAGCAGACATCCCGGCCAAGTATGCGGAGACCATGGACCG
CGAGTTTCAGGAAGTGGATGAAATGGTATGGAAAAAGCATGCAGAATACACATTGGAGAGAGGCGATTTCCTCTC
AGAAGAGTGGAGGGAGCGAATCGCCAACACGAGTGTATATTTGTGAATAATTTTGCCCTTTGGTCCCTGAGGTGGA
TCACCAGCTGAAGGAGCGGTTTGCAAACATGAAGGAAGGTGGCAGAATCGTGTCTCGAAACCCCTTGCACCTCT
GAACTTCAGAATAAACAGTAGAACTTGAGTGACATCGGCACCATCATGCGCGTGGTGGAGCTCTCGCCCCTGAA
GGGCTCGGTGTCTGAGACGGGGGAAGCCAGTCTCCTACTACCTGCACACTATCGACCGCACCATACTTGAAACTA
TTTTTCTAGTCTGAAAAACCCAAACTCAGGGAGGAACAGGAGGCAGCCCGCGCGCCAGCAGCGCGAGAGCAA
GAGCAACGCGGCCACGCCACTAAGGGCCAGAGGGCAAGGTGGCCGCGCCCGCGACGCCCCCATGGACTCTGG
TGCTGAGGAAGAGAAGGCGGGAGCAGCCACCGTGAAGAAGCCGTCTCCCTCAAAGCCCGCAAGAAGAAGCTAAA
CAAGAAGGGGAGGAAGATGGCTGGCCGCAAGCGCGGGCGCCCCAAGAAGATGAACACTGCGAACCCCGAGCGGAA
GCCCCAAGAAGAACAACTGCACTGGATGCCCTGCACGCTCAGACCGTGTCTCAGACGGCGGCTCCTCACCCCA
GGATGCCTACAGATCCCCCTCACAGCCCGTCTACAGCTACCTCCGAGCGTGCAGCGGCACTCCCCAACCCGCT
GCTGGTGGCGCCACCCCGCCGCTGCAGAAAGCTTCTAGAGTCTTCAAGATCCAGTACCTGCAGTTCTTGCC
ATACACAAAGACCCCCCAGTACAAGGCCAGCTGCAGGAGCTGCTGGGCCAGGAGAAGGAGAAGAAGCGCCAGCT
CCTGGGTGCGGCTCAGCAGCTCCTCAGCCACTGCCAGGCCAGAAGGAGGAGATCAGGAGGCTGTTTCAGCAAAA
ATTGGATGAGCTGGGTGTGAAGGCGCTGACCTACAACGACCTGATTCAAGCGCAGAAGGAGATCTCCGCCATAA
CCAGCAGCTGCGGGAGCAGTCCGAGCAGCTGGAGCAGGACAACCGCGCGCTCCGCGGCCAGAGCTTGAGCTGCT
CAAGGCTCGCTGCGAGGAGCTGCAGCTGGACTGGGCCACGCTGTCTGCTGGAGAAGCTGTTGAAGGAGAAGCAGGC
CCTGAAGAGCCAGATCTCGGAGAAGCAGAGGCACTGCCTGGAGCTGCAGATCAGCATTGTGGAGCTAGAGAAGAG
CCAGCGGCAGCAGGAGCTCCTGCAGCTCAAGTCTGTGTGCCGCTGACGACGCCCTGTCCCTGCACCTGCGTGG
GAAGGGCGCCCTGGGCGCGAGCTGGAGCCTGACGCCAGCCGGCTGCACCTGGAGCTGGACTGCACCAAGTTCTC
GCTGCCTCACTTGAGCAGCATGAGCCCGAGCTCTCCATGAACGGCCAGGCTGCTGGCTATGAGCTCTGCGGTGT
GCTGAGCCGGCCTTCGTGGAAGCAGAACACGCCCCAGTACCTGGCCTCACCCCTGGACCAGGAGGTGGTGCCCTG
TACCCCTAGCCACGTGCGCCGGCCGCGCCTGGAGAAGCTGTCTGGCCTAGCCGCACCCGACTACACTAGGCTGTC
CCCGGCCAAGATTGTGCTGAGGCGGCACCTGAGCCAGGACCACACGGTGCCCGGCAGGCGGCTGCCAGTGAGCT
GCATTGAGAGCTGAGCACACCAAGGAGAACGGCCTTCCCTACCAGAGCCCCAGCGTGCCTGGCAGCATGAAGCT
GAGCCCTCAGGACCCGCGGCCCTGTCCCTGGGGCCTTGACGCTTGCTGGAGAGAAGAGCAGTGAGAAGGGCCT
GAGAGAGCGCCTACGGCAGCAGCGGGGAGCTCATCACCAGCCTGCCCATCAGCATCCCGCTCAGCACCGTGCA
GCCCCAACAGCTCCCGGTGAGCATTCCCTTGCCAGCGTGGTGTGCCAGCCGCGCCGAGAGGGCGAGGAGCAC
CCCCAGTCCCGTGTGAGCCCGGTGACCCCTCGTCCACACTTGAAAAGCAGATTGGTGCTAATGCCCACGGTGC
TGGGAGCAGAAGCCTTGCCCTGGCCCCCGCAGGCTTCTCCTACGCTGGCTCGGTGGCCATCAGCGGGGCTTGGC
GGGCAGCCCGGCTCTCTCACACCTGGAGCCGAGCCGGCCACCTTGATGAGTCTCCAGCTCTGGGAGCCTTTT
TGCCACCGTGGGTCCCGCAGCTCCACGCCACAGCACCCCTGCTGCTGGCACAGCCCCGGAACCTCGCTTCTCTGC
CTCTCCCGCCACAGCTCTCCTCCAGTCCCCGGCTTGGTGGGGCCGCCAGGGCCCGTTGCCCGAGGCCAGCAA
GGGAGACCTGCCCTCCGATTCCGGCTTCTCAGATCCTGAGAGTGAAGCCAAGAGGAGGATTGTGTTACCATCAC
CACTGGTGCGGGAGTGCCAAGCAGTCGCCCTCCAGCAAGCACAGCCCCCTGACCGCCAGCGCCCGTGGGGACTG
TGTGCCGAGCCACGGGACGAGTGCAGGCGCGGCGGGAAGCGAGCATCTGCGGGGACGCCAGCTTGAG
CGCAGGCGTGTCCCCAAGCGCCGAGCCCTGCCGTCCGTGCTGGCCTTTTACACAGCCTTCGGGGTCTCCCT
CAACCTCAACTCCATGGTCAGTAACATCAACCAGCCCCCTGGAGATTACAGCCATCTCGTCCCCGAGACCTCCCT
GAAGAGCTCCCTGTGCCCTACCAGGACCAGACAGCCCCCGTGTCAAGAAGGAGCGGCCTCTGAGCCAGAC
CAATGGGGCACACTACTCCCACTCACCTCAGACGAGGAGCCAGGCTCTGAGGACGAGCCAGCAGTGCTCGAAT
TGAGAGAAAAATTGCAACAATCTCCTTAGAAAGCAAATCTCCCCGAAAACCTTGAAAAATGGTGGTGGCTTGGC
GGGAAGGAAGCCCGCGCCCGGCGAGCCAGTCAATAGCAGCAAGTGGAAGTCCACCTTCTCGCCCATCTCCGA
CATCGGCTGGCCAAGTCGGCGGACAGCCCGTGCAGGCCAGCTCCGCCCTCAGCCAGAATCCCTGTTTACGTT
CCGGCCCGCCTGGAGGAGCCCTCTGCCGATGCCAAGCTGGCCGCTCACCCAGGAAAGGCTTTCCCGGCTCCCT

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FIGURE 5150B

GTCTGGGGGCTGACGGACTCAGCCCGGGCACCAACCCTGCCAAACGGCTGCACCTTCGGCGGGGGCCTGGCCGCGGA
CCTGAGTTTACACAGCTTCAGTGATGGTGCTTCTCTTCCCCACAAGGGCCCCGAGGCGGCCGGCCTGAGCTCCCC
GCTGAGCTTCCCCCTCGCAGCGCGGCAAGGAGGGCTCGGACGCCAACCCTTTCCTGAGCAAGAGGCAGCTGGACGG
CCTGGCTGGGCTGAAGGGCGAGGGCAGCCGCGGCAAGGAGGCAGGGGAGGGCGGCCTACCGCTGTGCGGGCCCCAC
GGACAAGACCCCACTGCTGAGCGGCAAGGCCGCCAAGGCCCGGGACCGCGAGGTGACCTCAAGAATGGCCACAA
CCTCTTCATCTCTGCGGCGGGCGTGCCTCCCGGAAGCCTCCTCAGCGGCCCCGGCCTGGCCCCGGCGGGCGTCCCTC
CGCAGGCGGGCGCGGGCTCCTCCGCCAGACGCACCGGTCTTCTGGGCCCCCTCCCGCCGGGACCGCAGTTTCGC
GCTCGGCCCCATGTCCCTGCAGGCCAACCTCGGCTCCGTGGCCGGCTCCTCCGTGCTGCAGTCGCTGTTTCAGCTC
TGTGCCGGCCGCCGAGGCCTGGTGCACGTGTCTGCTGCCACCACTGACCAACTCGCACGCCATGGGCAG
CTTTTCCGGGGTGGCAGGCGGCACAGTTGGAGGTAAGTAGGATTTCTACCTCAACCGCGAGACCTATGCAAGGAC
GGTGTGGACCAACTCGCGCCCGCGGCATGGTGCCCGCCGGCCTGCCGGGCTCCCACCCCTGGACGGCAGAGGCAA
GGACGGACGGGAGCTCCACTGTGAATCGGCGGCACGCGCCGAGGAGGCTGGGACTGGTCCAGTTTGTACTGTCTG
ATAGTTTITAGATAAAGTATTTATCATTTTTTTAAAAAGTATAAACAATTCTGACTTATTTTATTCCATCTAAGTGG
TAAAAGGCAACTTATTGAGAAATATAAATATCTATATATGAGAGCTCTATATAAAGACACGTGTCTGCAGGGCGG
GCCCCAGCGGATTGCCACAGCCTGCCCCGGTGCTATCTCGTCCCCAGGCCCGCGCCTGCCTCCACCCGCTTG
GTGCTGACTAGACGCTGACAACGCCGAACCCCGTTCTCGGAAACGCCGCCCGCGGCTCCCCGACGCGCTGCT
CCCGTACCAAAGGCAGGCCCGTCGCCACCACATTCCTCGGAGGCCTCCCCGCGGCTGAGCCCCCTTCTGAGCGC
CCTGGCGCCTGCCCTGAGCTCTTACCTTTACCCCGGCACTGTGAACCCCCAGACTGTTACCCCTCCGGGGCGTG
GGTTGCGCCCTTGCAATGTGAAGGGGCTGCGCGGTGACGCAGCTGGCCATGTGCTGCGCGATGGTGTGTGAGGA
CGGCGCGGGCACGTTGAACAAGTGCAATTTACTTTTTGTATTTCTCGGCTGTCCATGGCTCGCAGCATGCCCTGCGA
TGCGGGGCAGGCCTGTCGTGGGTCCCTTGGTGTCTGTACAGGAGAGAGTCACACTAATGAGTGGCAGTATTTT
ATAGAGATGTGATGAGAATTTATAAATTTATAGATTTGACAGCTTTTATTTTATAGATGGTATAATGCACAGTGA
AGAGGAAAGAAAAGCGAGGGGAAAAAACCTTATTTATTCAAACAGTGACAAAAATGGCCCCAGCGTCAGCCCCGA
CCCTAGACCCCTCAGTTGCAGCTCCCAGCAGCCCAGACAGAGCTGCCGGCGCCCCCTGCCTGCCCCACATCCCTTC
CTGTACAGGGCCACGCCTGGCACCCATCCCTTGGAGCCTGTGCTGGTTCTCCAGCTGCTGTGGGTGTGCTGGGGC
CAGGGTGCACTGCTGAAACCTGGCCTCTCTGGCCCTAGGCCCCAGGGTGACGTGCGCCCCCACTCTGCAGCCTT
GGCGGGTGCTGGGACTGGGTGTGGAAGGAGAGGAGCTGAGGCCGGGGTGTAGCAGGCAGGCAGGGCCACTCCAG
TGCTTCTGGAGCCCTGAGCAGTCAGGGCCTGGGTTGTCTGAGCAGTGGTGGCTCTGTGCCCTCCCTGGAGGATGG
GATCTGGGA

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FIGURE 5151

MIDEIKMTDDDLFVDLGSVGQVVLQVAAATNCKHHYGVEKADIPAKYAETMDREFRKWMKWYGKKHAEYTLERG
DFLSEEWREIRIANTSVIFVNNFAFGPEVDHQLKERFANMKEGGRIVSSKPFAPLNFRINSRNLSDIGTIMRVVEL
SPLKGSVSWTGKPVSYLHTIDRTILENYFSSLKNPKLREEQEAAARRRQORESKSNAATPTKGPEGKVAGPADAP
MDSGAEEEEKAGAAATVKKPSPSKARKKKLNKKGRKMAGRKRGRPKMNTANPERKPKKNQTALDALHAQTVSQTAA
SSPQDAYRSPHSPFYQLPPSVQRHSPNPLLVAPTPPALQKLLESFKIQYLOFLAYTKTPQYKASLQELLGQEKEK
NAQLLGAAQQLLSHCQAQKEEIRRLFQQKLDELGVKALTYNDLIQAQKEISAHNQQLREQSEQLEQDNRALRGQS
LQLLKARCEELQLDWATLSLEKLLKEKQALKSQISEKQRHCLELQISIVELEKSQRQQELLQLKSCVPPDDALSL
HLRGKGALGRELEPDASRLHLELDCTKFSLPHLSSMSPELSMNGQAAGYELCGVLSRPSKQNTPOYLASPLDQE
VVECTPSHVGRPRLEKLSGLAAPDYTRLSPAKIVLRRHLSQDHTVPGRPAASELHSRAEHTKENGLPYQSPSVPG
SMKLSPODPRPLSPGALQLAGEKSSEKGLRERAYGSSGELITSLPISIPPLSTVQPNKLPVSIPLASVVLPSRAER
ARSTPSPVLQPRDPSSTLEKQIGANAHGAGSRSLALAPAGFSYAGSVAISGALAGSPASLTPGAEPATLDESSSS
GSLFATVGSRSSTPQHPLLLAQPRNSLPASPAHQLSSSPRLGGAAQGPLPEASKGDLPSDSGFSDEPESEAKRRIV
FTITTGAGSAKQSPSSKHSPLTASARGDCVPSHGQDSRRRGRKRKRASAGTPSLSAGVSPKRRALPSVAGLFTQPS
GSPLNLNSMVSNNINQPLEITAISSPETSLKSSPVYQDHDQPPVLKKERPLSQTNGAHYSPLTSDEEPGSEDEPS
SARIERKIATISLESKSPPKTLENGGLAGRKPAPAGEPVNSSKWKSTFSPISDIGLAKSADSPLQASSALSQNS
LFTFRPALEEPSADAKLAAHPRKGFPGSLSGADGLSPGTNPANGCTFGGGLAADLSLHSFSDGASLPHKGPEAAG
LSSPLSFPSQRGKEGSDANPFLSKRQLDGLAGLKGEGRGKEAGEGGLPLCGPTDKTPLLSGKAAKARDREVDLK
NGHNLFIISAAAVPPGSLLSGPGGLAPAASSAGGAASSAQTHRSFLGPFPPGPQFALGPMQLQANLGSVAGSSVLQS
LFSSVPAAGLVHVSSAATRLTNSHAMGSFSGVAGGTGGVFNHAVPSASAHFPGARVGRGAACGSATLGPSPLO
AAASASASSFQAPASVETRPPPPPPPPPPPLPPPAHLGRSPAGPPVLHAPPPPNALPPPPPTLLASNPEPALLOS
LASLPPNQAFLLPPTSAASLPPANASLSIKLTSLPHKGARPSFTVHHQPLPRLALAAQAPGIPQASATGPSAVWVS
LGMPPPYAAHLSGVKPR

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FIGURE 5152

GGCACGAGGCTTTCTTTGCCCCCGCTTCGCCAAACGAAGTCGTGGAGGTGGCGAAACGAGGAGGAGATAACGCGG
CCTTGGGCTCTGGTGTCTCCAGTCTGCTAAAGCCCTAAGGCCATCACCATGGACTTCCAGCATCGCCCCGGGGG
CAAGACCGGGAGCGGGGGCGTGGCCTCCTCCTCCGAGAGCAACCGTGACCGCAGGGAGCGCCTCCGGCAGCTGGC
CCTGGAGACCATCGACATCAACAAGGACCCGTACTTTCATGAAGAACCACCTGGGCTCCTATGAATGCAAACTCTG
CCTGACACTTCACAACAATGAGGGGAGCTACCTGGCACATACGCAGGGGAAGAAGCACCAGACCAACCTGGCCCCG
GCGAGCAGCCAAGGAGGCCAAGGAGGCCCTGCCCAGCCCGCGCCTGAGAAGGTCAAGGTGGAGGTGAAGAAGTT
TGTGAAGATCGGCCCGCCGGGCTACAAAGTGACCAAGCAGAGAGACTCGGAGATGGGCCAGCAGAGCCTCCTCTT
CCAGATTGACTACCCTGAGATCGCCGAGGGCATCATGCCACGTACCGCTTCATGTCTGCGTACGAGCAGAGGAT
CGAGCCTCCGGACCGGCGCTGGCAGTACCTGCTCATGGCCGCGAGCCCTACGAGACCATTGCCTTCAAGGTGCC
GAGCAGAGAGATCGACAAGGCGGAGGGCAAGTTCTGGACACACTGGAACCGGGAGACCAAGCAGTTCTTCTCTCCA
GTTCCACTTTAAGATGGAGAAGCCCCCGGCTCCACCCAGCCTCCCTGCTGGCCCCCCTGGGGTGAAGCGGCCTCC
ACCCCCGCTGATGAACGGTCTGCCCCCTCGGCCACCGCTGCCTGAGTCTTTGCCACCGCCCCCGCCAGGAGGCCT
GCCTCTGCCACCCATGCCCCCACAGGGCCTGCGCCCTCAGGGCCCCCGGGACCACCCAGCTACCCCCGCCAGC
TCCAGGGGTCCACCCCCGGCCCCAGTGGTGATCCCCCTGCATCTGGGGTCCATCCCCAGCTCCTGGCGTCCA
CCCCCAGCTCCTGGCGTCCATCCCCAGCCCCCTGGGGTCCACCCACCAACCTCTGGGGTCCACCCCCAGCTCC
TGGAGTCCACCTCCAGCCCCGGGGTTACCCACCAGCCCCCGGAGTCCACCCACCAGCCCCCTGGGGTTCACCC
ACCAGCCCCAGGGGTCCATCCTCCCCATCAGCGGGGGTTACCCCCAGGCCCCGGGGGTGCACCCAGCAGCCCC
CGCCGTTACCTCAGGCCCCAGGGGTGCACCCACCAGCCCCAGGGATGCACCCTCAGGCCCCGGGGGTCCACCC
CCAACCTCCCGGGGTCCATCCGTCGGCTCCTGGGGTCCACCCTCAGCCTCCGGGAGTTACCCCTCAAATCCTGG
GGTGCACCCCCCAACTCCCATGCCCCCAATGCTGAGGCCCCCACTTCCCTCCGAAGGCCAGGGAACATACCTCC
CCCTCCCCCAACCAACTGAGAGAGCTGCTCCCTCCCCCAGCAAGCCCAGCGCCAGGTGCTCTTGCTTTTCCCACT
GAGAGAAGGCTGCTCTTTTGTACTGCCCCCGCTCATTAACAGCCTCCCCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5153

MDFQHRP GGKTGSGGVASSSES NRDRRERLRQLALETIDINKDPYFMKNHLGSECKLCLTLHNNEGSYLAHTQG
KKHQTNLARRAAKEAKEAPAPAPAEKVKVEVKKFVKIGRPGYKVTQKQDSEMGQQSLLFQIDYPEIAEGIMPRHR
FMSAYEQRIEPPDRRWQYLLMAAEPYETIAFKVPSREIDKAEGKFWTHWNRETKQFFLQFHFKMEKPPAPPSLPA
GPPGVKRPPPP LMNGLPPRPPLPESLPPPPPGGLPLPPMPPTGPAPSGPPGPPQLPPAPGVHPPAPVVHPPASG
VHPPAPGVHPPAPGVHPPAPGVHPP TSGVHPPAPGVHPPAPGVHPPAPGVHPPAPGVHPPAPGVHPPAPGVHPPSAGVHPQ
APGVHPPAAPAVHPQAPGVHPPAPGMHPQAPGVHPQPPGVHPSAPGVHPQPPGVHPSNPGVHPPPTMPPPMLRPPLP
SEGPGNIPPPPTN

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FIGURE 5154

TGCGAACGGCGAGCAGCGGGCGGGCGGGAGAGACGCAGCGGAGGTTTTCTGGTTTCGGACCCCAGCGGGCCGG
ATGGTGAAATCCTCCCTGCAGCGGATCCTCAATAGCCACTGCTTCGCCAGAGAGAAGGAAGGGGATAAACCCAGC
GCCACCATCCACGCCAGCCGCACCATGCCGCTCCTTAGCCTGCACAGCCGCGGGCGGCAGCAGTGAGAGTTCC
AGGGTCTCCCTCCACTGCTGTAGTAACCCGGGTCCGGGGCCTCGGTGGTGCTCCTGATGCCCCTCACCCACCCCT
GAAGATCCCAGGTGGGCGAGGGAATAGTCAGAGGGATCACAACTTTTCAGCTAACTTATTCTACTCCGATGATCG
GCTGAATGTAAACAGAGGAACTAACGTCCAACGACAAGACGAGGATTCTCAACGTCCAGTCCAGGCTCACAGACGC
CAAACGCATTAACTGGCGAACAGTGCTGAGTGGCGGCAGCCTCTACATCGAGATCCCGGGCGGCGCGCTGCCCGA
GGGGAGCAAGGACAGCTTTGCAGTTCTCCTGGAGTTCGCTGAGGAGCAGCTGCGAGCCGACCATGTCTTCATTG
CTTCCACAAGAACCGCGAGGACAGAGCCGCCTTGCTCCGAACCTTCAGCTTTTTGGGCTTTGAGATTGTGAGACC
GGGGCATCCCCTTGTCCCAAGAGACCCGACGCTTGCTTCATGGCCTACACGTTTCGAGAGAGAGTCTTCGGGAGA
GGAGGAGGAGTAGGGCCGCTCGGGGCTGGGCATCCGGCCCCCTGGGGCCACCCCTTGTCAGCCGGGTGGGTAGGA
ACCGTAGACTCGCTCATCTCGCCTGGGTTTGTCCGCATGTTGTAATCGTGCAAATAAACGCTCACTCCGAATTAG
CGGTGTATTTCTTGAAGTTTAATATTGTGTTTGTGATACTGAAGTATTTGCTTTAATTCTAAATAAAAATTTATA
TTTTACTTTTT

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FIGURE 5155

ACCATTCTGATGTTGGAGCGGCCTCGGTCCGGTTGACTTTGCGGACATGGAGGGCGGCTTCGGCTCCGATTTCGG
GGGCTCCGGCAGCGGGAAGCTGGACCCAGGGCTCATAATGGAGCAGGTGAAAGTGCAGATCGCCGTGGCCAACGC
GCAGGAGCTGCTGCAGAGGATGACGGACAAGTGTTTTCCGGAAGTGTATAGGGAAACCTGGGGGCTCCCTGGACAA
CTCCGAGCAGAAGTGCATCGCCATGTGCATGGACCGCTACATGGACGCCTGGAACACCGTGCTCGCGCCTACAA
CTCGCGGCTGCAGCGGGAACGAGCCAACATGTGACCGGCGAGCGCGGGCCACCCACCCCTGTTTCATTTCATATAA
CGTGCTTTGAGAGGCGGGGTCCGCATGTACGTACTGCCTGCCCGGGGCTTAGGAGGGTGGCACCCGGTGCTGGGAC
ACACGGGACTGTGTCCTCGCCACCCCCCGCCCTGCCCCCTGCCAGCCAGTGCAGCTTGGATCTCGGGGGTGTGGG
GCCCTGTGCCTTCCTGAAGTGCTGGCAGCCAGTGGCACCTCCTTCAGGCCTTTGGGGTATTCCCCTAGTGTGCC
CAAGTCAGCCTCATATTCTGGGCGGACAGCTTGTCTGGACTTCGGAGTTGGGGGTGGTCAGACACCACAGGAGCT
GTCACCTCCTGCGGATGGGCAAATAAATTGGTGGAGGACGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAA

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FIGURE 5156

MEGGFGSDFGGSGSGKLDPLIMEQVKVQIAVANAQELLQRM TDKCFRK CIGKPGGSLDNSEQKCIAMCMDRYMD
AWNTVSRAYNSRLQRERANM

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FIGURE 5157

GGCACGAGGCCTCGTGCCGTTTTTAATGGATATTTATTTTTTTTACATTGGTCAGTACACAGGTCAGGAGCTCACGC
CAGGGCCTTGAGGACAGGCTGACCCTCCTCCCCGGGGTGGCGTGGGGCTGGGGCACCCCTCCGACGGCAGAGCCTC
CTTCAGAAAAGTGCAGCTCAAGTCTTAAAGACACCAAAACTGAGCCATGGGCACGCGCCGTCTCCGGGCCATGGCG
TTCACATGCAGGGCGGGGGCGGCACCGCTCCCCTGTGACTGCATCCCGCCTCCCTGGGGACCTGCCTGTGGCAGGA
AGGAATGGGGGGCCCCAGCCCCAGGCCGGGAAGGAGCCAGCGGCCGACAAAGCAGAAAACCCCGCTGCTCCACGT
AGCCCCCTGCTCGCTGCTCCTTGCTCTCAGAAGTCCCGGTCCCATGTAGATAGAGGGGGGGCGCATCTTACCAAAGCA
TTTCTCCTGGAGGCTACGCCGCTGTGCTCCCAGTCAGGCGGCTGGTAGGGAGCTTTGCGCTGCCCCGGGGATACC
CTCTGCCAGCCGCTGGAAGTGGGAATGCTGGCGACAGACTGTGTCTCTTTCCACCTTCATAGCAGGAATCACC
CGGACCCGACTGGCTGGGCTTCGTGCTAGCGAGGGTTCTGGGGGTGGGTCTTGGTGATCTTGTCCTATGGGGAGT
CTGCAGTGGTCTCAGCCACATCCTATGTATTTTGGCTCTGGAGGAGCAAAGCTGTATCCTGGAGTTGGTCTGTGA
TTTGCCGACAGCCTTGCAAGCTGGGCTCAGGGACAAAGTCCCCCCCCAAAACCCGAGGTCTCATGTCCAGACGC
TGCCAGTCCTGTCTGAAAACAGCACGCCCCAGGCCACAGAACCCCCCACCTACATTTGCGCTTGGGTGGAGC
TGGGGGTGGTCCTAGGACTGCGGGTGCCCTTAGCTGAAGGGGGTGGGGAGAAGCGTGGACTGGGCAGCCTGTGGG
TAATTGGAGGTTTATTGAGAAATTGAGTCTTTGGAAACACTAAGAAAATCAAATTTTTAAAAGTTATTTATGGCCT
GGGAAACAATTTGCATTTGTCCCCAAATACGCTTAGCTGTGTGCCGCTTAGAACGATGCGAAACCATCCCTCTGT
GTAAGCCCGTGCCGTGTGACTCGAAGCCTAGCGCCCTCCCTGCGAAGCATCAGACGCCACCCAGCCCTGGGGGGA
GGCCACGCCTGCTGGACCAACGCGGGTCTGGGGGTGCACAGCGCCAGGTTAACGCTGAAGCCTGCCCCGCTGAG
CCCAGGAGCCGGGAGGCCTGCGGGCTGACCCAGAAATCCGATCATGCACCTGTCTCATGCCAGCGGCTTTGGCTG
GGGTTGGTCTGAAGCCTGCACGCGGCAGTTCCTTTGTTAAAGATCTGAGGGACTCCTCAGTCTTGGGGCGTCGCCG
CCTGCAGCCTCTTCCAAGCCCTGCGTCCAGCGAGCGTCACAGCACAACCTGCAAAAACGGAGCTGGGCTGCAGCT
GGGGCTGGCATGGACTTTTCAATTCAGAGATTCCGTTTTTAAAGAAGATGCATGCCTAATGTGTTCTTTTTTTTTTC
CAATGATTTGTAATATACATTTTATGACTGGAAACTTTTTTGTACAACACTCCAATAAACATTTTGATTTTAAAA
AAAAAAAAAAAAAAAA

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FIGURE 5158

MAFTAGRGRHRSPVTASRLPGDLPVAGRNGGPQPQAGKEPAADKAETPAAPRSPCSLSLLSEVPVPCR

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FIGURE 5159

CGTCGGACTACCGTTGGTTTTCCGCAACTTCCTGGATTATCCTCGCCAAGGACTTTGCAATATATTTTTCCGCCTT
TTCTGGAAGGATTTTCGCTGCTTCCCGAAGGTCTTGGACGAGCGCTCTAGCTCTGTGGGAAGGTTTTGGGCTCTCT
GGCTCGGATTTTGGCAATTTCTCCCTGGGGACTGCCGTGGAGCCGCATCCACTGTGGATTATAATTGCAACATGAC
GCTGGAAGAGCTCGTGGCGTGCGACAACGCGGCGCAGAAGATGCAGACGGTGACCGCCGCGGTGGAGGAGCTTTT
GGTGGCCGCTCAGCGCCAGGATCGCCTCACAGTGGGGGTGTACGAGTCGGCCAAGTTGATGAATGTGGACCCAGA
CAGCGTGGTCCCTCTGCCTCTTGGCCATTGACGAGGAGGAGGAGGATGACATCGCCCTGCAAATCCACTTCACGCT
CATCCAGTCCCTTCTGCTGTGACAACGACATCAACATCGTGCGGGTGTCTGGGCATGCAGCGCCTGGCGCAGCTCCT
GGGAGAGCCGCGGAGACCCAGGGCACCACCGAGGCCGAGACCTGCATTGTCTCCTGGTCACGAACCCTCACAC
GGACGCCTGGAAGAGCCACGGCTTGGTGGAGGTGGCCAGCTACTGCGAAGAAAGCCGGGGCAACAACCAGTGGGT
CCCCTACATCTCTCTTCAGGAACGCTGAGGCCCTTCCCAGCAGCAGAATCTGTTGAGTTGCTGCCACAAACAAA
AATACAATAAATATTTGAACCCCTCCCCCAGCACAAACCCCAACCAACCCACGAGGACCATCGG
GGGAGAGTCGTTGGAGACTGAAGAGGAAGAGGAGGAGGAAGGGGAGTGAGCGGCCGCCCCAGGGCGGAGAT
CCAGGAGCTGGCGGCCGCCGATCCGATGGAGAAGGGGGGACCCAGGCCAGCAGGAGACAGGACCCCGAAGCTGA
GGCCTTGGGATGGAGCAGAAGCCGGAGTGGCGGGGCACGCTGCCGCCTTCCCCATCACGGAGGGTCCAGACTGTC
CACTCGGGGGTGGAGTGAGACTGACTGCAAGCCCCACCCTCCTTGAGACTGGAGCTGGCGTCTGCATACGAGAGA
CTTGGTTGAACTTGGTTGGTCCTTGTCTGCACCCTCGACAAGACCACACTTTGGGACTTGGGAGCTGGGGCTGAA
GTTGCTCTGTACCCATGAACTCCCAGTTTGCGAATTATAGAGACAATCTATTTTGTACTTGCACTTGTTATTCG
AACCCTGAGAGCGAGATGGGAAGCATAGATATCTATATTTTTATTCTACTATGAGGGCCTTGTAATAAATTC
TAAAGCCTC

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FIGURE 5160

GGGCAGGGGCGTGGGCGGGGCGTGGACCAGCCGCGCCGAGCGGGGCTCTCCGGGCCGCGTCTGTGGGGTCGAGA
CTGCGCGGCCGTTGGGCGTGCAGCGGCGCCAGTCGGCGGACGAGGGGCCCCGGGAGTTGCTGGACTGAGACATG
AGCCTCCAACCTGTGTGGTTGGGCTCGGTAGCACATCGTGGGACTTGGGTGTGCGCCACAGATGGTTTGGCCCTG
CAGTGACCAGAGCAGCCCAAGCCGCCACCATGGTGAAATTGCTAGTGGCCAAAATCCTGTGCATGGTGGGCGTGT
TCTTCTTCATGCTGCTCGGCTCCCTGCTCCCGTGAAGATCATCGAGACAGATTTTGAGAAGGCCCATCGCTCGA
AAAAGATCCTCTCTCTCTGCAACACCTTTGGAGGAGGGGTGTTTCTGGCCACGTGCTTCAACGCTCTGCTGCCCG
CTGTGAGGGAAAAGCTCCAGAAGGTCCTGAGCCTCGGCCACATCAGCACCGACTACCCGCTGGCCGAAACCATCC
TCCTGCTGGGCTTCTTCATGACCGTCTTCCTGGAGCAGCTGATCCTGACCTTCCGCAAGGAGAAGCCGTCCTTCA
TCGACCTGGAGACCTTCAACGCCGATCGGACGTGGGCAGCGACTCGGAGTATGAGAGCCCCCTTCATGGGGGGCG
CGCGGGGCCACGCGCTGTACGTGGAGCCCCACGGCCACGGCCCCAGCCTGAGCGTGCAGGGCCTCTCGCGCGCCA
GCCCCGTGCGCCTGCTCAGCCTGGCCTTCGCGCTGTGCGCCCACTCGGTCTTTGAGGGCCTGGCCCTGGGCCTGC
AGGAGGAGGGGAGAAAGTGGTGAGCCTGTTCTGTTGGGGTGGCCGTCCACGAGACACTGGTGGCCGTGGCCCTGG
GCATCAGCATGGCCCCGAGTGCCATGCCCCCTGCGGGACGCGGCCAAGCTGGCGGTACCCGTAAGCGCCATGATCC
CCCTGGGCATCGGCCTGGGCCTGGGCATTGAGAGCGCCAGGGCGTGCCGGGCAGCGTGGCGTCCGTGCTGCTGC
AGGGCCTGGCGGGCGGCACCTTCCTCTTCATCACCTTCCTGGAGATCCTGGCCAAGGAGCTGGAGGAGAAGAGTG
ACCGTCTGCTCAAGGTCTCTTCCTGGTGCTGGGCTACACCGTCCTGGCCGGGATGGTCTTCCTCAAGTGGTGAG
CGGCCTCGCCATTGTCCCTGCCGCCGAGCCCGCCGGGAGCCCCGGGCCGACACAGGCCGCGTCCCCGGCCGC
GCGTCCCCCAAGAGCGAGCACTGTGGCCCTGGGCCACCACCTGTGCACAAGGGGCTCCCGGGACCAGGCTGTGC
CCCCGATCCTACACCCTGAGCCTCAGAGCACTGCTACTTTTTTAAATACTTCTTTCTTTAAAGTCTTTACC

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FIGURE 5161

GGGCGTCGCGCCCTGGGGCCGGGGCCGGGCGGCACCGCGGTGCGCAAGCGCAACCGTCGGTGGGTGCGGGATCGG
TCGCCTGAGAGGTATCACCTCTTCTGGGCTCAAGATGACACAACAAGAAGCGCCTGGCCTACGCCATCATCCAGTT
CCTGCATGACCAGCTCCGGCACGGGGCCCTCTCGTCCGATGCTCAGGAGAGCTTGGAAGTCGCCATCCAGTGCCT
GGAGACTGCGTTTGGGGTGACGGTAGAAGACAGTGACCTTGCGCTCCCTCAGACTCTGCCGGAGATATTTGAAGC
GGCTGCCACGGGCAAGGAGATGCCGCAGGACCTGAGGAGCCCCGCGCGAACCCCGCCTTCCGAGGAGGACTCAGC
AGAGGCAGAGCGCCTCAAAACCGAAGGAAACGAGCAGATGAAAGTGGAACCTTTGAAGCTGCCGTGCATTTCTA
CGGAAAAGCCATCGAGCTCAACCCAGCCAACGCCGTCTATTTCTGCAACAGAGCCGCAGCCTACAGCAAACCTCGG
CAACTACGCAGGCGCGGTGCAGGACTGTGAGCGGGCCATCTGCATTGACCCGGCCTACAGCAAGGCCTACGGCAG
GATGGGCCTGGCGCTCTCCAGCCTCAACAAGCACGTGGAGGCCGTGGCTTACTACAAGAAGGCTCTGGAGCTGGA
CCCCGACAACGAGACATACAAGTCCAACCTCAAGATAGCGGAGCTGAAGCTGCGGGAGGCCCCCAGCCCCACGGG
AGGCGTGGGCAGCTTCGACATCGCCGGCCTGCTGAACAACCTGGCTTCATGAGCATGGCTTCGAACCTAATGAA
CAATCCCCAGATTCAGCAGCTCATGTCCGGCATGATTTGCGGTGGCAACAACCCCTTGGGAACTCCCGGCACCAG
CCCCCTCGCAGAACGACCTGGCCAGCCTCATCCAGGCGGGCCAGCAGTTTGCCAGCAGATGCAGCAGCAGAACCC
AGAGTTGATAGAGCAGCTCAGGAGCCAGATCCGGAGTCGGACGCCAGCGCCAGCAACGACGACCAGCAGGAGTG
ACGCTGCCTGCTCCCGGTGTGACCGCGTCCTTCCCTGGCCGACCCGAAGGAAGCCTTCTGGTTGTCTGCCACTTC
CTCCTGTTGGACTGCCTGAGAGAGGGGAAGAGAGAGACCTCGGACCTGCATGTCAAGATGGATTTTCCCCTTTTA
TCTCTGCCCTCCTCCACTCCCTTTTTGTAACCTCCCTTACAGCCCCCAGACCCTTCTTGAAACGAGAGCCAGCAAG
CTGAGCACAGACCAGCAGCGACCTCCCTTCCAGCCCCCAGAAAGCTCGGTCACTTGAGTGTCTTCTAGAAATCCTG
GGGTGCTCCCGGGCCGCTCTCAGAGAAGTGGCAGGTTTCACGTTACGCCGTGTGGCGGATCGTGTGGCTTCCAAA
GCCTTTTACAGCCCCCGCCCCCATCCCGTGGTCTGTCTGCAGGAACCTCTCCCGTCTGTGAGAAGCCTCTTTCCG
AGTCGACCTCCCGGCCACCCCGGCCCTGTGCCTGCTCGGAAGAGCTCACTGCCAGCTGCGGCCTGGGCACCGCGG
GCCATGTGTGTTTGCATGAGGAACCTCTTAGTGCCAGACACCTAAGAGACGGCTGCGGTACCCCCACGCCTCCGC
GGCTCAGGAGCCGTCTGGGTGCATAGGACCAGTTTCTGTGACTTTTCTCCAGTTGGGCATGTTGACAGACATGT
TTCCCTCCTCCCAACCTCATTTTCTGGTCTCTCGGACTGAGAGCCAGGGGCGACATCATGACCTTCTGTCCCGG
CCGCTTAGCCCCGGGCACAGGGAAGGCAGCTGGGCCGTTTCTGTCTGTGTCCCATCCTGCTGTCTTCTGTCTCT
GGATGTTTTCATGGGCCCCGGGGCCCCCAGGGAAGCTTACCCCTCCTGTGCTGGGTGGAGGCCACGGGACACCTCA
GGTGCCACCCACCTTGCCCTAAACAGCCACCAGGAAAGCAGCCGGAGAGCCGGACAGCAGGCAGCCTGTCTGG
GTTCTGAGGCCTGGGGGTGGCAGACGAGCCACGGCGCGTGGTCCCAGCAGCAGGGTTGTGAGTCGGAGCATC
CTGGGGCTCCCTGGCTCCTGGCCGTCTGTGAGGTAGGCGCAGTACCGTGTATCGTAGGTAGCAGTAGGAACGGG
GCCGCCGCGGCCCTGCAGCCGCTCATGGCGGTGAGGTGTGTGCCAAGCCACCCGGGGTGCAGGGCGTGACGTGT
GGGAATAAATAGCGTTGTGACCTCTAAAAAAAAAAAAAAAAAAAA